

FIGURE 1

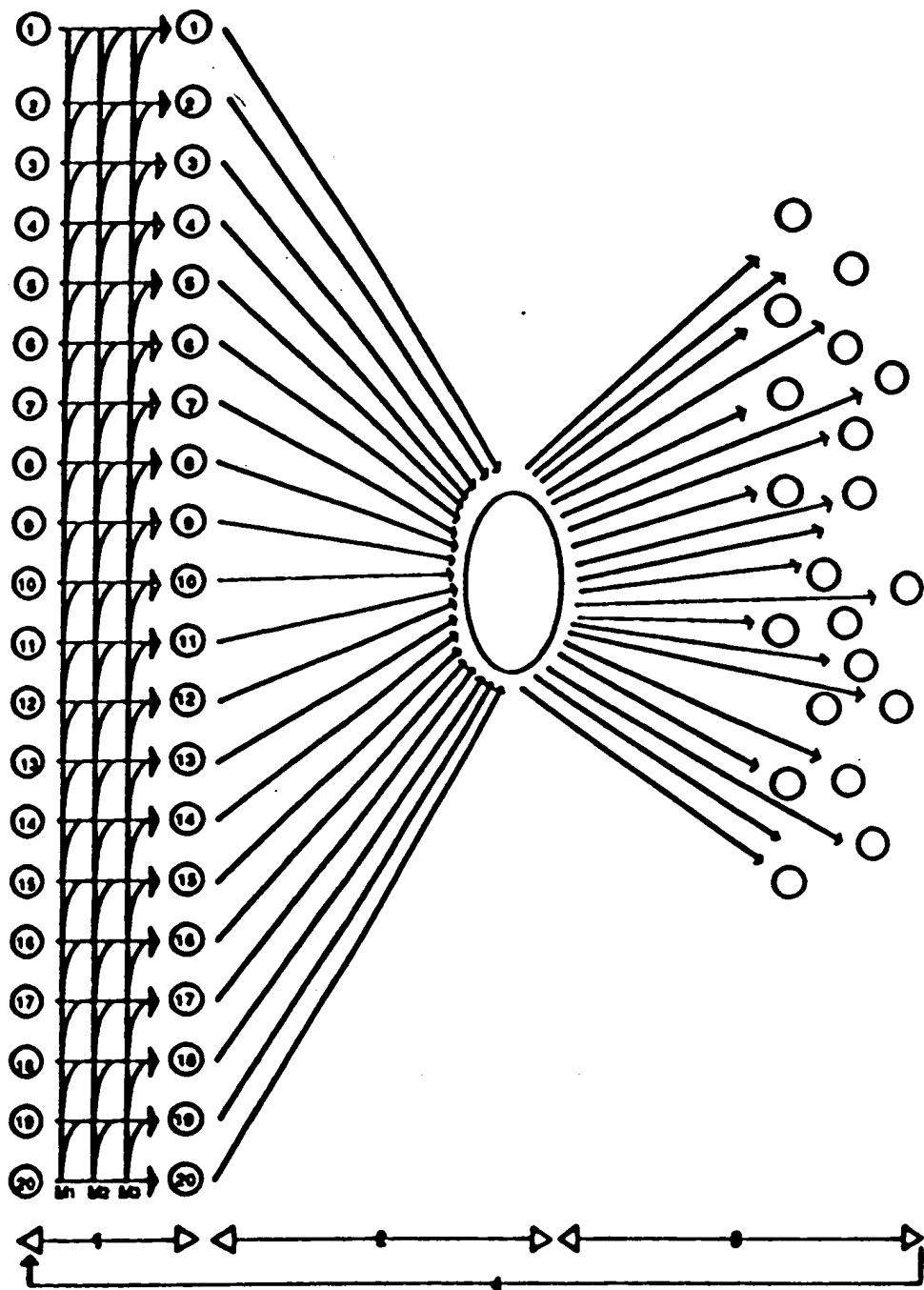


FIGURE 2

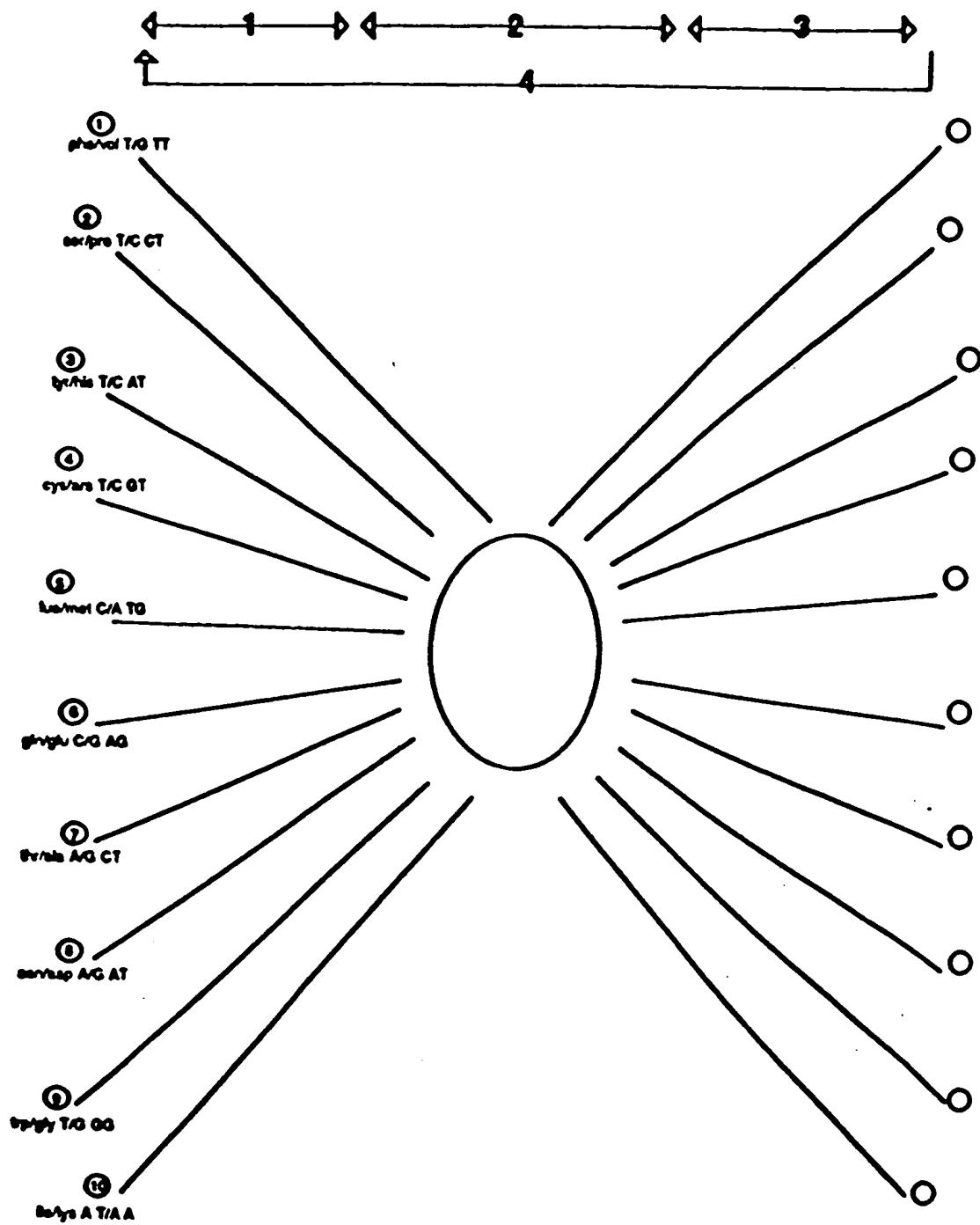


Figure 3

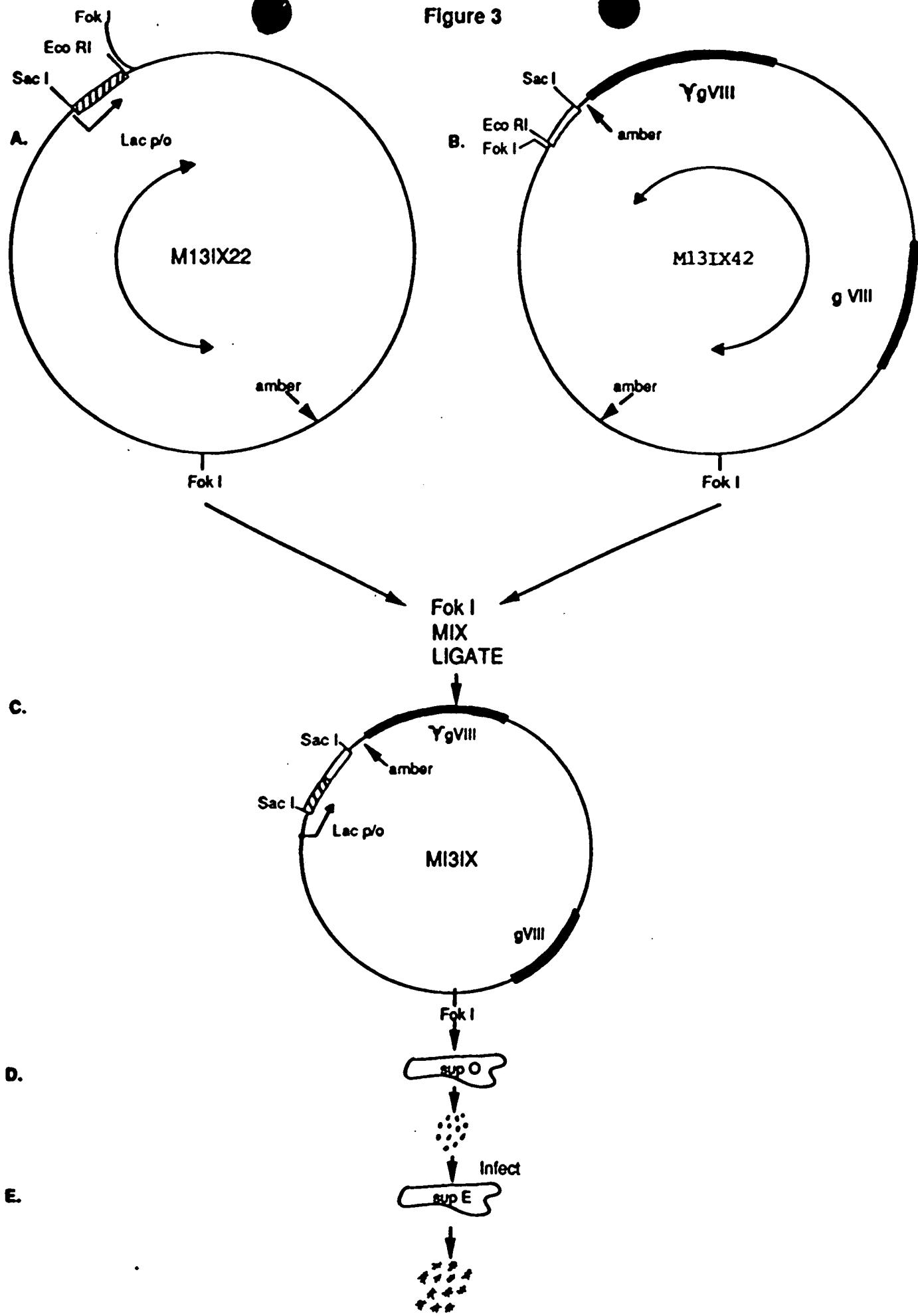


Figure 4

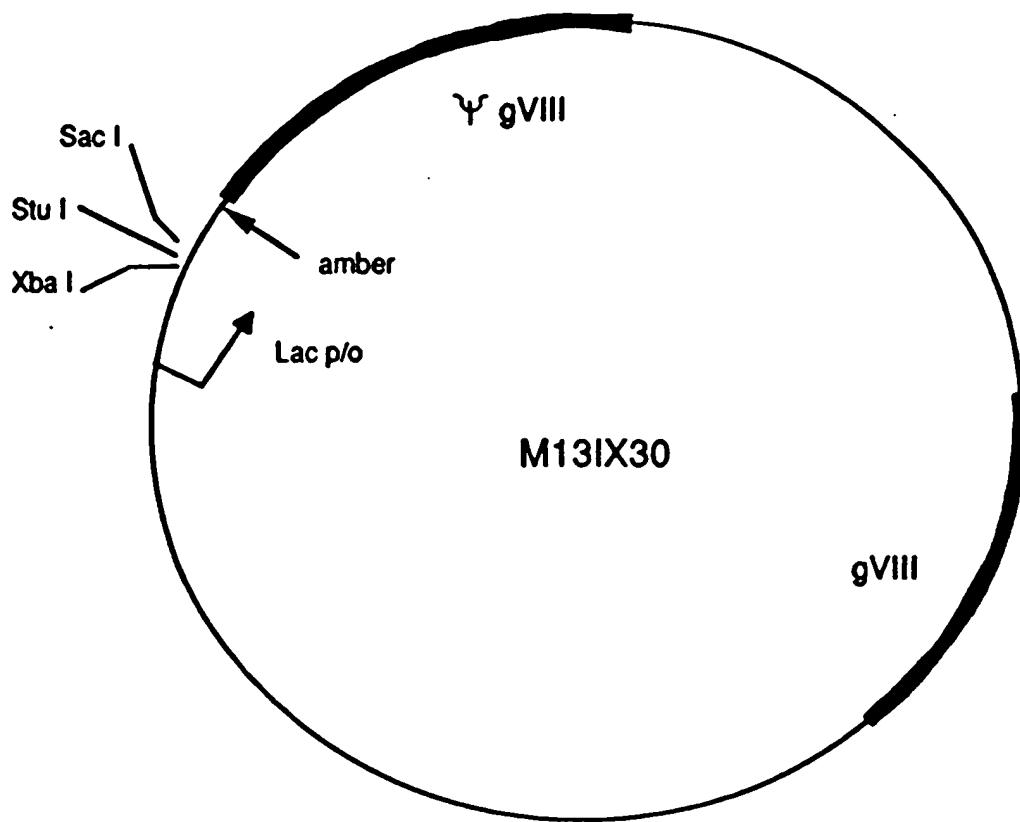


FIGURE 5-1

M13IX42

	10	20	30		40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGGGCCCC	AAATGAAAAAT	60
61	ATAGCTAAC	AGGTATTGA	CCATTTCGCA	AATGTTATCTA	ATGGTAAAC	TAAATCTACT	120
121	CGTTCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCAAGATTC	AGCAATTAAAG	CTCTAAGCCA	240
241	TCTGCAAAAA	TGACCTTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTG	CTTCGGTCT	GGTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTGAAG	360
361	TCTTCGGGC	TTCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTCTGA	CTATAATAGT	420
421	CAGGGTAAG	ACCTGATTT	TGATTTATGG	TCATTCTCGT	TTTCTGAAC	GTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGAG	TATTGACGC	TATCCAGTCT	540
541	AAACATTTA	CTATTACCCC	CTCTGGAAA	ACTTCTTTG	CAAACCCCTC	TCGCTATTT	600
601	GGTTTTATC	GTCGTCGTT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCCTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTT	CTACCTGAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTT	780
781	TCTTCCCAAC	GTCCCTGACTG	GTATAATGAG	CCAGTTCTA	AAATGCCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTGT	TTACGTGAT	TTGGGTAATG	960
961	AAATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCCGCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG	TTGGTCAGT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCC	CGTTCGGCT	AAAGTAAACATG	GAGCAGGTGCG	CGGATTTCGA	CACAATTAT	1140
1141	CAGGGCATG	TACAAATCTC	CGTTGTA	TGTTTCGCG	TTGGTATAAT	CGCTGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTCG	CCTCTTTCGT	TTTAGGTG	TGCCCTCGTA	1260
1261	GTGGCATTAC	GTATTTTAC	CGTTAATGG	AAACTCCCTC	ATGAAAAGT	CTTAGTCCT	1320
1321	AAAGCCTCT	GTAGCCGTTG	CTACCTCTCGT	TCCGATCGT	TCTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCCTGCT	TTAACCTCCCT	GCAAGCCTCA	GGCACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGCG	ATGGTTGTTG	TCATGTCGG	CGCAACTATC	GGTATCAAGC	TGTITAAGAA	1500
1501	ATTCACTTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTGGAGA	TTTCAACGT	AAAAAATTA	TTATTCCGAA	TTCCCTTACT	TGTTCCTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAATC	TTAGATCGT	ACGCTAACTA	TGAGGGTTG	1740
1741	CTGTGGAATG	CTACAGGGT	TGTAGTTGT	ACTGGTACCG	AAACTCACTG	TTACGGTACA	1800
1801	TGGGTTCCCTA	TTGGGCTTGC	TATCCCTGAA	AAATGAGGGT	GTGGCTCTGA	GGGTGGGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGGGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTC	GACGGCACTT	ATCCGCTGG	TACTGAGCAA	1980
1981	AAACCCGCTA	ATCCTAATCC	TCTCTTGTAG	GACTCTCAGC	CTCTTAATAC	TTTCATGTT	2040
2041	CAGAATAATA	GGTCCGAAA	TAGGCAGGGG	GCATTAAC	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTAA	AACTTATTAC	CACTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAAACG	AAATTTCAGA	GAATGCGCTT	TCCATTCTGG	CTTAAATGAA	2220
2221	GATCCATTG	TTTGTGAATA	TCAAGGCCAA	TCTGCTGACC	TGCCCTCAACC	TCCGTCAAT	2280
2281	GCTGGCGGGC	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGGG	CTCTGAGGG	GGCGGTTCCG	GTGGCTGCTC	TGGTCCGGT	2400
2401	GTATTTGATT	ATGAAAAGAT	GGCAACCGCT	AAATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	AAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTAT	TGGTACGTT	TCCGGCTTG	CTAATGGTAA	TGGTGTACT	2580
2581	GGTGAATTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTC	ATATTACCT	TCCCTCCCTC	AATCGGTGA	ATGTCGCCCT	2700
2701	TTTCGCTTTA	GGCGCTGGTA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTGTGTT	TCTTTATAT	GTGCCCCACT	TTATGTATGT	ATTTCTACG	2820
2821	TTTCGTAACA	TACTGGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCCTTGT	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCTCGGT	TTCTCTCTGG	TAACTTGTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTCTATT	GTTCCTGCT	CTTATTATTG	3000
3001	GGCTTAAC	AATTCTTGTC	GGTTATCTCT	CTGATATTAG	CGCTCAATTAA	CCCTCTGACT	3060
3061	TTGTCAGGG	TGTTCACTG	ATTCCTCCGT	CTAATGCCGT	TCCCTGT	TATGTTTATTC	3120
3121	TCTCTGAAA	GGCTGCTATT	TTCATTITG	ACGTTAAACA	AAAAATCGTT	TCTTATTG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTG	GTAACTGGCA	AATTAGGCTC	TGAAAGACCG	3240
3241	CTCGTTAGCC	TGGTAAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTCCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTGGGGAGGT	TCGCTAAAC	GCCTCGCGTT	3360
3361	CTTAAATAAC	CGGATAAGCC	TTCTATATCT	GATTGCTTG	CTATGGGG	CGGTAAATGAT	3420
3421	TCCTACGATC	AAAATAAAAA	CGGCTGCTT	GTTCCTCGATC	AGTGGGTAC	TTGGTTAAT	3480
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	CTTCCTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGGC	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTAT	TGTCGTCGTC	TGGACAGAA	TACTTTACCT	3660
3661	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCCTGTC	TAAATTACAT	3720
3721	CTTGGCGGTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGGG	TTGGCTTTAT	3780
3781	ACTCGTAAGA	ATTGTATAAA	CCCATATGAT	ACTAAACAGG	CTTTTCTAG	TAATTATGAT	3840

FIGURE 5-2

3841 TCCGGTGT TT ATTCTTAT AAGCCCTAT	TTATCACACG GTCCGTATT CAAACCAATT 3900
3901 AATTTAGGTC AGAAGATGAA GCTTACTAAA	ATATATTTGA AAAAGTTTC ACAGCGTTCTT 3960
3961 TGTCTGCCA TTGGATTTCG ATCAGCATT	ACATATACTT ATATAACCCA ACCTAACCGG 4020
4021 GAGGTTAAAA AGGTAGCTC TCAGACCTAT	GATTTGATA AATTCACAT TGACTCTCT 4080
4081 CAGCGTCTTA ATCTAAGCTA TCGCTATGTT	TTCAAGGATT CTAAGGGAA ATTAATTAAT 4140
4141 AGCGACGATT TACAGAAGCA AGGTTAATTCA	CTCACATATA TTGATTTATG TACTGTTCC 4200
4201 ATTAAAAAGG TAATTCAAAT GAAATTGTTA	AATGTAATTA ATTTTGTTT CTTGATGTTT 4260
4261 GTTTCATCAT CTTCCTTGC TCAGGTAATT	GAATGAATA ATTGCCTCT GCGCGATTTT 4320
4321 GTAACTTGGT ATTCAAAGCA ATCAGGGCAA	TCCGTTATTG TTCTCCCGA TGAAAAGGT 4380
4381 ACTGTTACTG TATATTTCATC TGACGTTAAA	CCTGAAAATC TACCGAATT TTGATTTCT 4440
4441 GTTTACGTG CTAATAATT TGATATGGTT	GGTCAATTG CTTCCATTAT TTAGAAGTAT 4500
4501 AATCCAACA ATCAGGATT TATTGATGAA	TTGCCATCAT CTGATAATCA GGAATATGAT 4560
4561 GATAATTCCG CTCCCTCTGG TGTTTCTTT	GTTCCGAAA ATGATAATGT TACTCAACT 4620
4621 TTAAATTAA ATAACGTTG GGCAAAGGGAT	TTAATACGAG TTGTCGAATT GTTGTAAAG 4680
4681 TCTAATACTT CTAAATCCTC AAATGTATTA	TCTATTGACG GCTCTAATCT ATTAGTTGTT 4740
4741 AGTGCACCTA AAGATATTT AGATAACCTT	CCTCAATTCC TTCTACTGT TGATTTGCCA 4800
4801 ACTGACCAGA TATTGATTGA GGTTTGTATA	TTTGAGGTTC AGCAAGGTGA TGCTTAGAT 4860
4861 TTTTCATTTG CTGCTGGCTC TCAGCGTGGC	ACTGTTGCAG GCGGTTAA TACTGACCGC 4920
4921 CTCACCTCTG TTTTATCTTC TGCTGGTGGT	TCGTTCGGTAA TTTTAATGG CGATGTTTTA 4980
4981 GGGCTATCAG TTCCGGCATT AAAGACTAAT	AGCCATCAA AAATATTGTC TGGCCACGT 5040
5041 ATTCTTACCG TTTCAGGTCA GAAGGGTTCT	ATCTCTGTTG GCCAGAATGT CCCTTTTATT 5100
5101 ACTGGTCGTG TGACTGGTGA ATCTGCAAAT	GTAAATAATC CATTTCAGAC GATTGAGCGT 5160
5161 CAAAATGTAG GTATTTCATC GAGCGTTTT	CCTGTTGCAA TGGCTGGCGG TAATATTGTT 5220
5221 CTGGATATTA CCAGCAAGGC CGATAGTTG	AGTCTCTA CTCAGGCAAG TGATGTTATT 5280
5281 ACTAATCAA AAGTATTGTC TACAACGGTT	AATTGCGTC ATGGACAGAC TCTTTTACTC 5340
5341 GGTGGCCTCA CTGATTATAA AAACACTTCT	CAAGATCTG GCGTACCGTT CCTGCTAAA 5400
5401 ATCCCTTAA TCGGCCCTCT GTTTAGCTCC	CGCTCTGATT CCAACAGGAA AAGCACGTTA 5460
5461 TACGTGCTCG TCAAAGCAAC CATAGTACGC	GCCCTGTAGC GGCGCATTAA GGCGGGCGGG 5520
5521 TGTGGTGGTT ACGCGCAGCG TGACCGCTAC	ACTTGCACG GCCCTAGGCC CGGCTCCTTT 5580
5581 CGCTTTCTTC CCTTCCTTTC TCGCCACGTT	CGCGGGCTTT CCCCGTCAAG CTCTAAATCG 5640
5641 GGGGCTCCCT TAGGGTTCC GATTTAGTGC	TTTACGGCAC CTCGACCCCC AAAAACTTGA 5700
5701 TTTGGGTGAT GGTTCACGTA GTGGGCCATC	GCCCTGATAG ACGGTTTTG GCCCTTTGAC 5760
5761 GTTGGAGTCC ACGTTCTTA ATAGTGGACT	CTTGTCCAA ACTGGAACAA CACTCAACCC 5820
5821 TATCTCGGGC TATTCTTTG ATTATAAGG	GATTTGCCG ATTTCGGAAC CACCATCAA 5880
5881 CAGGATTTTC GCCTGCTGG GCAAACCGC	GTGGACCGCT TGCTGCAACT CTCTCAGGGC 5940
5941 CAGGCGGTGA AGGGCAATCA GCTGTTGCC	GTCTCGTGG TGAAAAGAAA ACCCACCTG 6000
6001 GCGCCAATA CGCAAACCGC CTCTCCCCGC	GCGTGGCCG ATTCAATTAT CGAGCTGGCA 6060
6061 CGACAGGTTT CCCGACTGGA AAGCGGGCAG	TGACCGCAAC GCAATTAAATG TGAGTTAGCT 6120
6121 CACTCATTAG GCACCCCAGG CTTACACTT	TATGCTTCCG GCTCGTATGT TGTGTGGAAT 6180
6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA	CAGCTATGAC CAGGATGTAC GAATTCCAG 6240
6241 GTAGGAGAGC TCGGCGGATC CTAGGCTGAA	GGCGATGACC CTGCTAAGGC TGCAATTCAAT 6300
6301 AGTTTACAGG CAAGTGTCTAC TGAGTACATT	GGCTACGCTT GGGCTATGGT AGTAGTTATA 6360
6361 GTTGGTGCTA CCATAGGGAT TAAATTATTC	AAAAAGTTA CGAGCAAGGC TTCTTAACCA 6420
6421 GCTGGCGTAA TAGCGAACAG GCGCGCACCG	ATCGCCCTTC CCAACAGTTG CGCAGCCTGA 6480
6481 ATGGCGAATG GCGCTTGCC TGTTTCCGG	CACCAGAAC GGTGGCGGAA AGCTGGCTGG 6540
6541 AGTGCATCTC TCTCGAGGCC GATACGGTCG	TGGTCCCCTC AAACGGCAG ATGCCACGGTT 6600
6601 ACATGCGCC CATCTACACC AACGTAACCT	ATCCCATTAC GGTCAATCCG CGCTTTGTT 6660
6661 CCACGGAGAA TCCGACGGGT GTTACTCGC	TCACATTAA TGTGATGAA AGCTGGCTAC 6720
6721 AGGAAGGCCA GACGCCAATT ATTTTGATG	GGCTTCCAT TGGTTAAAAA ATGAGCTGAT 6780
6781 TTAAACAAA TTAAACCGA ATTAAACAA	AAATTAACG TTAACTATT AAATATTGTC 6840
6841 TTATACAATC TTCCGTTTT TGGGGCTTTT	CTGATTATCA ACCGGGGTAC ATATGATTGA 6900
6901 CATGCTAGTT TTACGATTAC CGTCATCGA	TTCTCTGTT TGCTCCAGAC TCTCAGGCAA 6960
6961 TGACCTGATA GCCTTTGTAG ATCTCTAAA	AAATAGCTACC CTCTCCGGCA TTAAATTATC 7020
7021 AGCTAGAACG GTTGAATATC ATATTGATGG	TGATTTGACT GTCTCCGGCC TTCTCACCC 7080
7081 TTTGAATCT TTACCTACAC ATTACTCAGG	CATTGCATT AAAATATATG AGGGTCTAA 7140
7141 AAATTTTAT CCTTGCCTTG AAATAAAGGC	TTCTCCCGCA AAAGTATTAC AGGGTCATAA 7200
7201 TGTGTTTGTG ACAACCGATT TAGCTTATG	CTCTGAGGCT TTATTGCTTA ATTTGCTAA 7260
7261 TTCTTGCTT TGCCTGTATG ATTATTGGA	CGTT 7294

| 10 | 20 | 30

| 40 | 50 | 60

FIGURE 6-1

M13IX22

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCA	CTCCGGCCCC	AAATGAAAAT
61	ATAGCTAAAC	AGGTATTGA	CCATTTGC	AATGTATCTA	ATGGTCAAC	TAATCTACT
121	CGTTCCGACA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCAGAC	CCGACTTTA
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCAAGATC	ACCAATTAA	AG CTCAAGCCA
241	TCTGCAAAAAA	TGACCTCTA	TCAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCC TGACCTG
301	TTGGAGTTTG	CTTCCGGTCT	GGTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG
361	TCTTCGGG	TCCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTCTGA	CTATAATAGT
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGA	ACT GTAAAGCA
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCA	TATTGGACGC	TATCCAGTCT
541	AAACATTTTA	CTATTACCCC	CTCTGCCAA	ACTTCTTTG	CAAAGCCTC	TCGCTATTT
601	GT	TTTTTATC	GT	TATGATAGT	TTGCTCTAC	TATGCCTCGT
661	AATTCC	TTTT	GGCGTTATGT	GT	ATTCCCTAA	ATCTCAACTG
721	ATGAATCTT	CTACCTGAA	TAATGTTGTT	CCGTTAGTC	TTTTTATTAA	CGTAGATTT
781	TCTTCCCAC	GT	CTGACTG	GT	ATAATGAG	CCAGTTCTA
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTG	TTACGTTGAT	TTGGTAATG
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTG	ATGAAGTC	GCCAGCTAT	GCGCCTGGTC
1021	TGTACACCCTG	TCATCTGTC	TCTTC	TTGCTCAGT	CGGTTCCCTT	ATGATTGACC
1081	GT	TCGCCCCCT	CGT	GACCACTCG	CGGATTCTGA	CACAA
1141	CAGGCATGA	TACAAATCTC	CGTTGACTT	TGTTT	CGC	TTG
1201	CAAAGATGAG	TGTTT	AGT	GGTATAAT	CGCTGGGGT	1200
1261	GTGGCATTAC	GT	ATTTTAC	CC	CTTCTCGT	TTAGGTTGG
1321	CAAAGCCTCT	GT	AGCCGTTG	AACTCCTC	AACTCCTC	ATGAAAAGT
1381	CGATCCCGCA	AAAGCGCCT	TTAAC	TTAGGTTGG	CTT	AGT
1441	TGCGTGGCG	ATGGTTGTTG	TCATGTC	AACTCCTC	AGT	TTAGTCT
1501	ATT	CACCTCG	AAAGCAAGCT	GATAAACCGA	TACAA	TTAA
1561	TTTTGGAGA	TTTCAACGT	GAAAAAATTA	GGCTCCTT	GGC	GGCTT
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TTATCGC	TTG	TTG
1681	TTTACTAACG	TCTGGAAAGA	CGACAAA	TTAGCT	GGG	GGG
1741	CTGTGGAATG	CTACAGCGT	TGAGTTG	ACTGGT	GGG	GGG
1801	TGGGTTCTA	TTGGGCTTG	TATCCCTGAA	ATGAGGTG	GTG	GGCTG
1861	TCTGAGGGTG	CGCGTTCTGA	GGGTGGCGGT	ACTAACCTC	CTGAGTACGG	TGATACACCT
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTC	GACGGCACTT	ATCCGCTGG	TACTGAGCAA
1981	AAACCCCGCTA	ATCCTAAATCC	TTCTT	GAGTC	CTCTTAAAC	TTTCATGTT
2041	CAGAATAATA	GGTTCCAAA	TAGGCAGGGG	GCATTAAC	TTTACCGG	CACTGTTACT
2101	CAAGGCACTG	ACCCGTTAA	AACTTATTAC	CACTAC	CTG	TATC
2161	TATGACGCTT	ACTGGAAACGG	TAATT	CACT	CGCT	CGCT
2221	GATCCATTG	TTTGTGAATA	TCAAGGCAA	TGCT	CTG	CTG
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTCTGGT	GGCGG	CTG	GGG
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGGGT	GGG	GGG
2401	GATTTGATT	ATGAAAAGAT	GGCAAACCGT	AAATAGGGG	CTATGACCGA	AAATGCCGAT
2461	AAAAACGCGC	TACAGTCTGA	CGCTAAAGG	AAACTTGATT	CTGTCGCTAC	TGATACGGT
2521	GCTGCTATCG	ATGGTTTCAT	TGGTACGTT	TCCGGCTTG	CTAATGGTAA	TGGTGTACT
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAACTC	GTGACGGTGA	TAATTCACCT
2641	TTAATGAATA	ATTTCCGCA	ATATTTACCT	TCCCTCCCTC	AATCGGTGA	ATGTC
2701	TTTGTCTTA	CGGCTGGTAA	ACCATATGAA	CTAATGGTAA	TGGTGA	TACT
2761	TTCCGTGGTG	TCTTGC	TTATTTATAT	GCTCAACTC	GTGACGGTGA	TAATTCACCT
2821	TTTGCTAAC	TACTGCGAA	TAAGGAGTCT	TCCCTCCCTC	AATCGGTGA	ATGTC
2881	TATTATTGCG	TTTCTCGGT	TTCTTCTG	CTAATGGTAA	TGGTGA	TACT
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTAATGGTAA	TGGTGA	TACT
3001	GGCTTAAC	AATTCTTG	GGTTATCTCT	CTGATATTAG	CGCTCAATT	CCCTGACT
3061	TTGTTCA	GGTTCA	TTCTTCTG	CTAATGGCCT	TCCCTGTTT	TATGTTATT
3121	TCTCTG	AA	GGCTGCTATT	ACGTTAAACA	AAAATCGTT	TCTTATT
3181	ATTGGGATAA	ATAATATG	TGTTT	GTAACTGGCA	AATTAGGCTC	TGAAAGACG
3241	CTCGTTAGCG	TTGGTAAGAT	TTAGGATAAA	ATG	GTG	CAAA
3301	CTGATTTAA	GGCTC	AAA	GTG	CAAA	GGG
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GGCTGAGGT	TCGCTAAAC	GCCTCGCGT
3421	TCTACGATG	AAA	ATTTAAA	GATTGCTT	CTATTGGCG	CGGTAATGAT
3481	ACCGCTTCTT	GG	ATG	GT	CTG	CGT
3541	AAATTAGGAT	GGG	ATG	GG	CTG	GG
3601	CGGTCG	CTG	ATG	GG	CTG	GTG
3661	TTTGTGGT	CTT	ATG	GG	CTG	GG
3721	GTGGCGT	TTA	ATG	GG	CTG	GG
3781	ACTGGTAAGA	ATTTGATAA	CGCATATGAT	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT
				ACTAAACAGG	CTTTTCTAG	TAATTATGAT

FIGURE 6-2

3841	TCCGGTGT	TTT ATTCTTATT	AACGCC	TTT	TTATCACACG	GTCGGT	ATTT	CAAACCA	TTA	3900
3901	AATTTAGGTC	AGAAGATGAA	ATTA	ACTAAA	ATATATTG	AAAAGTTTC	TCGC	GTTCTT	CTT	3960
3961	TGTCTTGCGA	TTGGATT	TC	ATCAGC	ATTT	ACATATAGT	ATATAACCC	ACCTAAGCCG	4020	
4021	GAGCTTAAA	AGGTAGCTC	TCAGAC	CTAT	GATTTG	GATA	AA	TTCA	ACTAT	4080
4081	CAGCGTCTT	ATCTAACGCT	TCGCT	ATGTT	TTCAAGG	CTAAGGGAA	AA	TTAATT	AA	4140
4141	AGCGACGATT	TACAGAAGCA	AGGT	TATT	CTCATATA	TTGATTT	TG	TACTGTT	CC	4200
4201	ATTA	AAAAG	GTAAT	CAA	TTGA	AA	TTTGT	TT	TCTTGATGTT	4260
4261	TGTTTCATCA	TCTCTTTG	CTCAGG	TAAT	TGAA	AA	TTTGA	AA	TTCCGCCTC	4320
4321	TGTAAC	TTG	TATTCAA	AGC	AATCAGGCGA	ATCCGTTATT	TTTCTCCC	CG	ATGAAAAGG	4380
4381	TACTGTTACT	GTATATT	CAT	CTGAC	TTAA	ACCTGAAA	CTACGCA	ATT	TCTTTATTTC	4440
4441	TGTTTACGT	GCTAATAATT	TTGAT	ATGTT	TGGTC	CAATT	CC	TTCAGAAGTA	4500	
4501	TAATCCA	AA	AATCAGG	ATT	ATATTGATGA	ATTGCCATCA	TCTG	GATAATC	AGGAATATGA	4560
4561	TGATAATTCC	GCTCCTCTG	GTGG	TTTCTT	TTCAAGGCA	AATGATAATG	TTACTC	AAAC	4620	
4621	TTTTAA	TTT	AATAACG	TTG	GGGCAAAGGA	TTTAATACGA	GTTG	TGAAT	TTAA	4680
4681	GTCTAA	TACT	TCTAA	ATCT	CAAATGTATT	ATCTATTGAC	GGC	TCTAATC	TATTAGTTG	4740
4741	TAGTGCAC	CT	AAAGA	TATT	TAGATAACCT	TCCTCAATTC	CTT	TCTACTG	TTGATTTGCC	4800
4801	AACTGACCAG	ATATTGATTG	AGGG	TTTGT	GTGAGGTT	ATTTGAGGTT	CAG	CAAGGTG	ATGCTT	4860
4861	TTTTCA	TTT	GCTG	CTGGCT	CTCAGCGTGG	CACTGTTGCA	GGC	GGTGT	TTA	4920
4921	CCTCAC	CTCT	TTTT	TATCTT	CTGCTGGTGG	TTCGTT	CGG	TCTAATC	TATTAGTTG	4980
4981	AGGGCTATCA	GTTC	CGCGCAT	TA	AAAGACTAA	TAGCCATTCA	AAA	ATATTGT	CTGTGCCACG	5040
5041	TATTCTTACG	CTTC	CAGGTC	AGAAGG	TTTC	TATCTCTGTT	GGC	CAGAATG	TCCCTTTAT	5100
5101	TACTGGT	CGT	GTGACTG	GTG	AACTG	TGTA	AA	AA	CCATTTCAGA	5160
5161	TCAAA	ATG	TA	GGT	TTTCA	TCCTG	GTG	ATGGCTGGCG	GTAA	5220
5221	TCTGG	ATATT	ACCG	CAAGG	CCGATAGTT	GAGTT	CTT	CT	ACTCAGGCA	5280
5281	TACTAAT	CAA	AGAAGT	ATTG	CTACAACGGT	TAATTGCG	TTG	GTGATGTT	TT	5340
5341	CGGTGGC	CTC	ACTG	ATTATA	AAAACACTTC	TCAAGATCT	GGC	GTACCGT	TCC	5400
5401	AATCC	CTT	TA	ATCG	GGCTC	CCGCT	CTG	CTG	TCTAA	5460
5461	ATACG	TGTC	GTCA	AAAGCA	CCATAGTACG	CGGCGT	CTG	GTAG	AAAGCACGTT	5520
5521	GTGTGGT	GGT	TACGCC	CAGG	GTGACCGT	CACTG	CCG	CTAGCG	CCC	5580
5581	TCG	CTT	CTT	CC	CTGCC	TCG	CCG	CTAGCG	CTC	5640
5641	GGGGG	CTCCC	TTT	AGG	GTTC	CGAT	CCC	CTAGCG	CTA	5700
5701	ATTTGGT	GTA	TGGT	CACTG	AGTGGCCAT	CTTACGGCA	CCC	CTGATA	GACGG	5760
5761	CGT	GGAG	TC	CACT	TTT	AA	AGTGG	AA	CTCTT	5820
5821	CTAT	CTCGG	CT	ATT	TTT	GATT	TATA	AGA	AA	5880
5881	ACAGG	ATT	TTT	CGC	TGCTG	GGCA	AA	AC	ACTCAACC	5940
5941	CCAGG	CGGTG	AAGG	CAATC	AGCTG	TG	CGT	CGCTG	GTG	6000
6001	GGCG	CCAA	AT	ACG	AAACCG	CCT	CT	GGG	CTTGA	6060
6061	ACGAC	AGGTT	TCCC	GACTG	GG	AAAGC	GGG	CA	GG	6120
6121	TC	ACT	CATTA	GGC	ACCCCCAG	GCT	TT	GG	CTG	6180
6181	TTG	TGAG	GGG	ATA	ACA	ATT	TT	GG	CGT	6240
6241	TAC	GGC	AGCC	GCT	GGATT	G	T	GG	ACAGTC	6300
6301	GAC	CC	CAGA	ATT	CC	ATC	GG	GG	CTG	6360
6361	ACT	GGC	CGTC	TTT	ACA	AC	T	GG	CGT	6420
6421	CCT	TG	CAGCA	CA	CCCC	CTT	C	GG	AA	6480
6481	CC	CT	CCCC	AA	CA	G	T	GG	AT	6540
6541	AGAAG	CGGTG	CGG	AAAGCT	GGCTGG	AG	T	GG	CCG	6600
6601	CCC	CT	CAAAC	TG	GCAG	ATG	T	GG	CC	6660
6661	CAT	TAC	GGT	CA	ATC	GG	T	GG	CGT	6720
6721	AT	TTA	ATG	TT	GAT	AA	T	GG	CTG	6780
6781	TC	CT	TATTG	GT	AAAA	ATG	G	GG	CGA	6840
6841	TTA	ACG	TTA	CA	TTT	AA	T	GG	AA	6900
6901	TTA	TCA	ACCG	GGG	TACAT	AT	T	GG	CTG	6960
6961	CTT	GT	TTG	CT	CCAG	ACTC	T	GG	AT	7020
7021	GCT	AC	CCCT	CCGG	CAT	AA	T	GG	ACG	7080
7081	TTG	ACT	GTC	CCGG	CTT	TCAC	CC	GG	ATT	7140
7141	GC	AT	TTAAA	A	TATG	AGGG	T	GG	TTA	7200
7201	CCC	G	CAA	AA	TAT	ACAGG	T	GG	AT	7260
7261	GAGG	CTT	TAT	TG	CTT	ATT	T	GG	ACG	7320

| 10 | 20 | 30

| 40 | 50 | 60

FIGURE 7-1

M13X30

	1	10	1	20	1	30		1	40	1	50	1	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC				ACCTTTTCAG	CTCGGGCCCC	AAATGAAAAT				60
61	ATAGCTAAC	AGGTATTG	CCATTGGCA				AATGTA	ATGGTAAAC	TAATCTACT				120
121	CGTTCGAGA	ATTGGGAATC	AACTGTTACA				TGGAATGAA	CTTCCAGACA	CCGTACTTTA				180
181	GTTGCATATT	AAAACATGT	TGAGCTACAG				CACCAAGATTC	AGCAATTAG	CTCTAAGGCCA				240
241	TCTGCAAAA	TGACCTCTTA	TCAAAAGGAG				CAATTAAAGG	TACTCTCTAA	TCCTGACCTG				300
301	TTGGAGTTTG	CTTCCCCTCT	GGTCGCTT				GAAGCTCGAA	TTAAAACGCG	ATATTGAAAG				360
361	TCTTCCGGGC	TTCCCTTAA	TCTTTTGTAT				GCAATCCGCT	TTGCTCTGA	CTATAATAGT				420
421	CAGGGTAAG	ACCTGATTT	TGATTTATGG				TCATTCTCGT	TTTCTGA	GTAAAGCA				480
481	TTTGAGGGGG	ATTCATGAA	TATTATGAC				GATTCCGAG	TATIGGACGC	TATCCAGTCT				540
541	AAACATTTA	CTATTACCCC	CTCTGGCAA				ACTTCTTTG	CAAAAGCCTC	TCGCTATTTT				600
601	GGTTTTATC	GTGCTCTGG	AAACGAGGGT				TATGATAGT	TTGCTCTTAC	TATGCCCTCGT				660
661	AATTCTTTT	GGCGTTATGT	ATCTGCATTA				GTGGAATCTG	GTATTCCTAA	ATCTCAACTG				720
721	ATGAATCTT	CTACCTGTAA	TAATGTTGTT				CCGTTAGTC	GTTTTATTAA	CGTAGATTTT				780
781	TCTTCCCAAC	GTCTGACTG	GTATAATGAG				CCAGTTCTA	AAATGCCATA	AGGTAATTCA				840
841	CAATGATTAA	AGTGAAATT	AAACCATCTC				AAGCCCATT	TACTACTCGT	TCTGGTGT				900
901	CTCGTCAGGG	CAAGCCTAT	TCACTGAATG				AGCAGCTTG	TTACGGTAT	TTGGGTAATG				960
961	AAATATCCGGT	TCTTGTCAAG	ATTACTCTTG				ATGAAGCTA	GCCAGGCTAT	GGCCCTGGTC				1020
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG				TTGGTCAGT	CGGTTCCCTT	ATGATTGACC				1080
1081	GTCTCGGCCT	CGTTCCGGCT	AAGTAACATG				GAGCAGGTCG	CGGATTTCGA	CACAATTTAT				1140
1141	CAGGCGATGA	TACAAATCTC	CGTGTACTT				TGTTTCCGGC	TTGGTATAAT	CGCTGGGGGT				1200
1201	CAAAGATGAG	TGTTTGTG	TATTCTTCG				CCTCTTTGT	TTAGGTTGG	TGCCCTCGTA				1260
1261	GTGGCATTAC	GTATTTACC	CGTTAATGG				AAACTCTC	ATGAAAAGT	CTTAGTCCT				1320
1321	CAAAGCCTCT	GTAGCCGTG	CTACCCCTCGT				TCCGATGCTG	TCTTTCGTC	CTGAGGGTGA				1380
1381	CGATCCCGCA	AAAGCCGCT	TTAACTCCCT				GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA				1440
1441	TGCGTGGGGG	ATGGTTGTTG	TCATTGTCGG				CGCAACTATC	GGTATCAAGC	TGTTTAAGAA				1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA				TACAATTAA	GGCTCTTTT	GGAGCCTTTT				1560
1561	TTTTGGAGA	TTTCAACGT	AAAAAATTAA				TTATCCGAA	TTCCCTTGT	TGTTCCTTTC				1620
1621	TATTCTCACT	CCGCTAACAA	TGTGAAAGT				TGTTTACGAA	AACCCATAC	AGAAAATTCA				1680
1681	TTTACTAACC	TCTGGAAAGA	CGACAAAATC				TTAGATCGT	ACGCTAACTA	TGAGGGTTGT				1740
1741	CTGTGGAATG	CTACAGCGGT	TGTAGTTGT				ACTGGTACG	AAACTCTAGT	TTACGGTACA				1800
1801	TGGGTTCTA	TTGGGCTTC	TATCCCTGAA				AATGAGGTG	GTGGCTCTGA	GGGTGGCGGT				1860
1861	TCTGAGGGTG	GGGGTTCTGA	GGGTGGCGGT				ACTAAACCTC	CTGAGTACGG	TGATACACCT				1920
1921	ATTCGGGCT	ATACTTATAT	CAACCCCTCTC				GACGGCACCT	ATCCGCTGG	TACTGAGCAA				1980
1981	AAACCCCGCTA	ATCCTAAATCC	TTCTCTTGAG				GAGTCTCAGC	CTCTTAAATAC	TTTCATGTTT				2040
2041	CAGAATAATA	GGTCCGAAA	TAGGCAGGGG				GCATTAACCTG	TTTATAACGGG	CACTGTTACT				2100
2101	CAAGGCAC	ACCCCTTAA	AACTTATTAC				CACTACACTC	CTGTATCATC	AAAAGCCATG				2160
2161	TATGACGCTT	ACTGGAAACGG	TAATTCAAGA				GACTGCGCTT	TCCATCTGG	CTTAAATGAA				2220
2221	GATCCATTG	TTTGTGAATA	TCAAGGCCAA				TCGTCGAC	TGCCCTAAC	TCCIGTCAAT				2280
2281	GCTGGCGGGG	GCTCTGGTGG	TGGTCTGCTG				GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT				2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGG				GGCGGTTCCG	GTGGTGGCTC	TGGTCCGGT				2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAAACGCT				AATAAGGGGG	CTATGACCGA	AAATGCCGAT				2460
2461	AAAAACCGCG	TACGCTGA	CGCTAAAGGC				AAACTTGATT	CTGTCGCTAC	TGATTACGGT				2520
2521	GCTGCTATCG	ATGGTTCAT	TGGTACGTT				TCCGGCTTG	CTAATGGTAA	TGGTACGTT				2580
2581	GGTGTATTTG	CTGGCTCTAA	TTCCCAAATG				GCTCAAGTCG	GTGACGGTGA	TAATTACACCT				2640
2641	TTAATGAATA	ATTCGGCTA	ATATTCTACCT				TCCCTCCCTC	AATCGTTGA	ATGTCGCCCT				2700
2701	TTTGTCTTTA	GGCGTGGTAA	ACCATATGAA				TTTCTATG	ATTGTGACAA	AATAAACTTA				2760
2761	TTCCGTGGTG	TCTTCTGTT	TCTTTATAT				GTGCCCACCT	TTATGTATGT	ATTTCCTACG				2820
2821	TTTGCTAAC	TACTGCGTAA	TAAGGAGTCT				TAATCATGCC	AGTTCTTTG	GGTATTCGGT				2880
2881	TATTATTGCG	TTTCTCTGGT	TTCTCTCTGG				TAACCTTGT	CGGCTATCTG	CTTACTTTTC				2940
2941	TTAAAAAGGG	CTTCGGTAAAG	ATAGCTATTG				CTATTCATT	GTTCCTGCT	CTTATTATG				3000
3001	GGCTTAACTC	AATTCTGTG	GGTATCTCT				CTGATATTAG	CGCTCAATTAA	CCCCTGACT				3060
3061	TTCTTCAGCG	IGTCAGTAA	ATTCTCCCGT				CTAATCCGCT	TCCCCTGTTT	TATGTTATTC				3120
3121	TCTCTGTAA	GGCTGCTATT	TCATTTTG				ACGTTAAACA	AAAAATCGTT	TCTTATTG				3180
3181	ATTGGGATAAA	ATAATATGGC	TGTTTATT				GTAACTGGCA	AAATTAGGCTC	TGAAAGACAG				3240
3241	CTCGTTAGCG	TTGGTAAAGAT	TCAGGATAAA				ATTGTAGCTG	GGTGC	AAATAGCA				3300
3301	TTTGATTTAA	GGCTTCAAA	CCTCCCGCAA				GTCGGGAGGT	TCGCTAAAC	GCCTCGCGTT				3360
3361	TTAGAATAC	CGGATAAGCC	TCCTATATCT				GATTGCTG	CTATTGGCG	CGGTAATGAT				3420
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT				TTCTCGATG	AGTGCCTGAC	TTGGTTTAAT				3480
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG				CCGATTATG	ATTGGTTCT	ACATGCTCGT				3540
3541	AAATTAGGAT	GGGATATTAT	TTTCTTGTG				CAGGACTTAT	CTATTGTTGA	TAACAGGGCG				3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTGTTTAT				TGTCGTCGTC	TGGACAGAAAT	TACTTTACCT				3660
3661	TTGTOGGTA	CTTTATATT	TCTTATTACT				GGCTCGAAA	TGCCTCTGCC	TAATTACAT				3720
3721	GTTCGGCTG	TTAAATATGG	CGATTCCTAA				TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT				3780
3781	ACTGGTAAGA	ATTGTTATAA	CGCATATGAT				ACTAACAGG	CTTTTCTAG	TAATTATGAT				3840

FIGURE 7-2

Inventor: William D. Huse
Docket No.: P-IX 4526

3841	TCCGGTGT	TTT ATTCTTATTC	CGCCCTTAT	TTATCACACC	GTCGGTATT	TTT CAAA	TTA	3900
3901	AATTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTC	ACCGGTTCTT		3960
3961	TGTCTTGC	GA TTGGATTTC	ATCAGCATTT	ACATATACTT	ATATAACCCA	ACCTAACGCCG		4020
4021	GAGGTTAAA	AGGTAGTC	TCAGACCTAT	GATTTGATA	AATTCACTAT	TGACTCTTCT		4080
4081	CAGCGTCTTA	ATCTAAGCTA	TGCGTATGTT	TTCAAGGATT	CTAACGGAAA	ATTAATTAAT		4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTITATG	TACTGTTCC		4200
4201	AATAAAAAAG	GTAATCAA	TGAATTGTT	AAATGTAATT	AATTITGTT	TCTTGATGTT		4260
4261	TGTTTCATCA	TCTTCTTTG	CTCAGGTAAT	TGAAATGAAT	AATTGCCCTC	TGCCGATT		4320
4321	TGTAACITGG	TATTCAAAGC	AATCAGGGCA	ATCCGTTATT	TTTCTCCCG	ATGAAAAGG		4380
4381	TACTGTTACT	GTATATTCT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTATTT		4440
4441	TGTTTACGT	GCTAATAAT	TTGATATGGT	TGTTCAATT	CCTTCATCA	TTCAGAAGTA		4500
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA		4560
4561	TGATAATTCC	GCTCCCTCTC	GTGGTTCTT	TGTTCCGCAA	AATGATAATC	TTACTCAAAC		4620
4621	TTTTAAAATT	AATAACGTC	GGGAAAGGA	TTAAATACGA	GTGTCGAAT	TGTTGTA		4680
4681	GTCTAATCT	TCTAATCT	CAAATGTT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT		4740
4741	TAGTGCACCT	AAAGATATT	TAGATAACCT	TCTCTACTG	TTGATTGCC	4800		
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTGAGGT	CAGCAAGGTG	ATGTTTAGA		4860
4861	TTTTTCATTT	GCTGCTGGCT	CTCAGGTTG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG		4920
4921	CCTCACCTCT	GTTTTATCT	CTGCTGGTGG	TTCGTTCGGT	ATTTTAATG	GCGATGTTT		4980
4981	AGGGCTATCA	GTTCGCGCAT	TAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG		5040
5041	TATTCTTACG	CTTCAGGTC	AGAAGGGTC	TATCTCTGTT	GGCCAGAATG	TCCC	TTTAT	5100
5101	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAATAAT	CCATTTCAGA	CGATTGAGCG		5160
5161	TCAAAATGTA	GGTATTTC	TGAGCGTTT	TCCTGTTGCA	ATGGCTGGCG	GTAAATATTGT		5220
5221	TCTGGATATT	ACCAAGCAAGG	CCGATAGTTT	GAGTTCTCT	ACTCAGGAA	GTGATGTTAT		5280
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTGCGT	GATGGACAGA	CTCTTTACT		5340
5341	CGGTGCCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA		5400
5401	AATCCCTTA	ATCGGCCCTC	IGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT		5460
5461	ATACGTGTC	GTCAAAGCA	CCATAGTACG	CGCCCTGTAG	CGGCGCATT	AGCGCGGCGG		5520
5521	GTGTGGTGGT	TACGCCGAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCCTCCTT		5580
5581	TCGCTTCTT	CCCTTCTT	CTGCCACGT	TCGCCGGCTT	TCCCCGCTAA	GCTCTAAATC		5640
5641	GGGGGCTCCC	TTAGGGTC	CGATTAGTG	CTTACGGCA	CCTCGACCCC	AAAAAACTTG		5700
5701	ATTTGGGTGA	TGGTACCGT	AGTGGGCCAT	CGCCCTGTATA	GACGGTTTT	CGCCCTTTGA		5760
5761	CGTGGAGTC	CACGTTCTT	AAATGTTGAC	TCTTGTCCA	AACTGAAACA	ACACTCAACC		5820
5821	CTATCTCGGG	CTATTCTTT	GAATTATAAG	GGATTTGCG	GATTTCGAA	CCACCATCAA		5880
5881	ACAGGATT	CGCCCTGCTG	GGCAAAACCAG	CGTGGACCGC	TTGTCGAAC	TCTCTCAGG		5940
5941	CCAGGGCTG	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTGAAAAGAA	AAACCACCT		6000
6001	GGCCGCCAAT	ACGCAAACCG	CCTCTCCCG	CGCGTTGGCC	GATTCAATT	TGCAGCTGGC		6060
6061	ACGACAGGT	TCCCCACTGG	AAAGGGGCA	GTGAGGCGAA	CGCAATTAT	GTGAGTTAGC		6120
6121	TCACTCATTA	GGCACCCAG	GCTTACACT	TTATGCTTCC	GGCGTGTATG	TTGTGTTGAA		6180
6181	TTGTGAGCGG	ATAACAAATT	CACACGGTC	ACTTGGCACT	GGCGTGTGTT	TTACACGTC		6240
6241	GTGACTGGGA	AAACCTGGC	GTACCCAAAG	CTTGTACAT	GGAGAAAATA	AAGTGAACAA		6300
6301	AAGCACTATT	GCACGGCAC	TCTTACCGTT	ACCGTTACTG	TTTACCCCTG	TGACAAAAGC		6360
6361	CGCCCAGGTC	CAGCTGCTCG	AGTCAGGCC	ATTGTGCCCA	GGGGATGTA	CTAGTGGATC		6420
6421	CTAGGCTGAA	GGCGATGACC	CTGCTTAAGGC	TGCATTCAAT	AGTTACAGG	CAACTGCTAC		6480
6481	TGAGTACATT	GGCTACGTT	GGCTATGGT	AGTAGTTATA	GTGCGCTA	CCATAGGGAT		6540
6541	TAATTATTC	AAAAAGTTA	CGACCAAGGC	TTCTTAAGCA	ATACGAAGA	GGCCCGCACC		6600
6601	GATGCCCTT	CCCAACAGT	GGCCAGCTG	AATGGCGAAT	GGCGTTTGC	CTGGTTCCG		6660
6661	GCACCAAG	CGGTGCCGGA	AAGCTGGCTG	GAGTGCATC	TTCTGAGGC	CGATACGGTC		6720
6721	GTCTCCCT	CAAACCTGGC	GATGACCGGT	TACGATGCC	CCATCTACAC	CAACGTAACC		6780
6781	TATCCCATT	CGGTCATCC	GGCTTTGTT	CCCACGGAGA	ATCCGACGGG	TTGTTACTCG		6840
6841	CTCACATT	ATGTTGATGA	AACTGGCTA	CAGGAAGGCC	AGACGCGAAT	TATTTTGAT		6900
6901	GGCGTTCTA	TTGGTTAAA	AAATGAGCTGA	TTTAACAAA	TTTAACGCG	AAATTAAACA		6960
6961	AAATATTAAC	GTTTACATT	AAATATTG	CTTATACAA	CTTCTGTTT	TTGGGGCTT		7020
7021	TCTGATTATC	AACCGGGGT	CATATGATTG	ACATGCTAGT	TTACGATTA	CCGTCATCG		7080
7081	ATTCTCTTG	TGCTCAGA	CTCTCAGGCA	ATGACCTGAT	AGCCTTGT	GATCTCTAA		7140
7141	AAATAGCTAC	CCTCTCCGGC	ATTAATTAT	CACCTAGAAC	GGTTGAATAT	CATATTGATG		7200
7201	GTGATTGAC	TGTCCTCGGC	CTTTCTCACC	CTTTGAAATC	TTTACCTACA	CATTACTCAG		7260
7261	GCATTGCA	TAAAATATAT	GAGGGTTCTA	AAATTTTTA	TCCTTGGTT	GAATAAAAGG		7320
7321	CTTCTCCCCC	AAAAGTATT	CAGGGTCATA	ATGTTTTG	TACAACCGAT	TTAGCTTAT		7380
7381	GCTCTGAGGC	TTTATTGCTT	AAATTGCTA	ATTCTTGC	TTGCCTGTAT	GATTATTG		7440
7441	ACGTT							7445

| 10 | 20 | 30 | 40 | 50 | 60

FIGURE 8-1

ed03 ->

	10	20	30	40	50	60
1	AATGCTACTA CTATTAGTAG AATTGATGCC			ACCTTTCAAG CTCGGCCCCC AAATGAAAAT 60		
61	ATAGCTAAC AGGTATTGA CCATTTGCAG			AATGTATCTA ATGGTCAAAC TAAATCTACT 120		
121	CGTTCGAGA ATTGGGAATC AACTGTTACA			TGGAATGAAA CTTCCAGACA CCGTACTTTA 180		
181	GTTGCATATT TAAAACATGT TGAGCTACAG			CACCAGATTG AGCAATTAAAG CTCTAAGCCA 240		
241	TCTGAAAAAA TGACCTCTTA TCAAAAGGAG			CAATTAAGG TACTCTCTAA TCCTGACCTG 300		
301	TTGGAGTTG CTTCCGGTCT GGTCGCTTT			GAAGCTCGAA TTAAACGCG ATATTGAAAG 360		
361	TCTTCGGGC TTCCTCTAA TCTTTTGAT			GCAATCCGCT TTGCTTCTGA CTATAATAGT 420		
421	CAGGGTAAAG ACCTGATTT TGATTATGG			TCATTCTCGT TTTCTGAAC GTTTAAAGCA 480		
481	TTTGAGGGG ATTCAATGAA TATTATGAC			GATTCCGAG TATTGGACGC TATCCAGTCT 540		
541	AAACATTTA CTATTAACCC CTCGGCAAA			ACTTCCTTG CAAAAGCCTC TCGCTATTTT 600		
601	GGTTTTATC GTCGCTGGT AAACGAGGGT			TATGATAGTG TTGCTCTAC TATGCTCGT 660		
661	AATTCCCTTT GCGGTTATGT ATCTGCATTA			GTTGAATGTG GTATTCCTAA ATCTCAACTG 720		
721	ATGAATCTTT CTACCTGTAA TAATGTTGTT			CCGTTAGTTC GTTTATTAA CGTAGATTTT 780		
781	TCTTCCAAAC GTCCCTGACTG GTATAATGAG			CCAGTTCTTA AAATCGCATA AGGTAATTCA 840		
841	CAATGATTA AGTTGAAATT AAACCATCTC			AAGCCCATT TACTACTCGT TCTGGTGT 900		
901	CTCGTCAGGG CAAGCCTTAT TCACTGAATG			ACCGAGCTTG TTACGTTGAT TTGGGTAATG 960		
961	AATATCCCGT TCTTGTCAAG ATTACTCTTG			ATGAAGGTCA GCCAGCCTAT GCGCCTGGTC 1020		
1021	TGTACACCGT TCATCTGTCC TCTTCAAAG			TTGGTCAGTT CGGTTCCCTT ATGATTGACC 1080		
1081	GTCTCGCCCT CGTTCGGCT AAGTAACATG			GAGCAGGTGCG CGGATTTCGA CACAATTAT 1140		
1141	CAGGCGATGA TACAATCTC CGTTGACTT			TGTTTCGGC TTGGTATAAT CGCTGGGGGT 1200		
1201	CAAAGATGAG TGTTTACTG TATTCTTCG			CCTCTTCGTT TTTAGGTTGG TGCCCTCGTA 1260		
1261	GTGGCATTAC GTATTTACCG CGTTTAATGG			AAACTCCCTC ATGAAAAAGT CTTAGTCCT 1320		
1321	CAAAGCCTCT GTAGCCGTTG CTACCCCTCGT			TCCGATGCTG TCTTCGCTG CTGAGGGTGA 1380		
1381	CGATCCCGCA AAAGCCGCT TAACTCCCT			GCAAGCCTCA GCGACCGAAT ATATCGGTTA 1440		
1441	TGCGTGGGCG ATGGTTGTTG TCATTGTCGG			CGCAACTATC GGTATCAAGC TGTTAAGAA 1500		
1501	ATTCACCTCG AAAGCAAGCT GATAAACCGA			TACAATTAAA GGCTCCTTTT GGAGCCTTTT 1560		
1561	TTTTGGAGA TTTCAACGT GAAAAAAATTA			TTATTGCGAA TTCCCTTAGT TGTTCTTTC 1620		
1621	TATTCTCACT CCGCTGAAAC TGGTAAAGT			TGTTTAGCAA AACCCCATAC AGAAAATTCA 1680		
1681	TTTACTAAGC TCTGAAAGA CGACAAAATC			TTAGATCGTT ACGCTAACTA TGAGGGTTGT 1740		
1741	CTGTGGAATG CTACAGCGT TGTAGTTGT			ACTGGTGACG AAACTCAGT TTACGGTACA 1800		
1801	TGGGTTCTCA TTGGGCTGC TATCCCTGAA			AATGAGGGTG GTGGCTCTGA GGGTGGCGGT 1860		
1861	TCTGAGGGTG CGCGGCTCTGA GGGTGGCGGT			ACTAAACCTC CTGAGTACGG TGATACACCT 1920		
1921	ATTCGGGCT ATACTTATAT CAACCCCTCTC			GACGGCACTT ATCCGCTGG TACTGAGCAA 1980		
1981	AACCCCGCTA ATCCTAATCC TTCTCTTGAG			GAGTCTCACG CTCTTAAATAC TTTCATGTTT 2040		
2041	CAGAATAATA GGTTCCGAAA TAGGCAGGGG			GCATTAACCTG TTTATACGGG CACTGTTACT 2100		
2101	CAAGGCACCG ACCCCGTTAA AACTTATTAC			CACTACACTC CTGTATCATC AAAAGCCATG 2160		
2161	TATGACGCTT ACTGGAACCG TAAATTCAAGA			GACTGCGCTT TCCATTCTGG CTTTAATGAA 2220		
2221	GATCCATCG TTGTAATA TCAAGCCAA			TCGCTGACG TGCCCTCAACC TCCGTCAAT 2280		
2281	GCTGGCGGCG GCTCTGGTGG TGTTCTGGT			GGCGGCTCTG AGGGTGGTGG CTCTGAGGGT 2340		
2341	GGCGGTTCTG AGGGTGGCG CTCTGAGGGA			GGCGGTTCCG TGGGTGGCTC TGTTTCCGGT 2400		
2401	GATTTGATT ATGAAAAGAT GGCAACGCT			AATAAGGGGG CTATGACCGA AAATGCCGAT 2460		
2461	AAAAACGCGC TACAGTCTGA CGCTAAAGGC			AAACTTGATT CTGTGCTAC TGATTACGGT 2520		
2521	GCTGCTATCG ATGGTTTCAT TGTTGACGTT			TCCGGCTCTG CTAATGGTAA TGTTGCTACT 2580		
2581	GGTGATTTCG CTGGCTCTAA TTCCCAAATG			GCTCAAGTCG GTGACGGTGA TAATTACACT 2640		
2641	TTAATGAATA ATTTCCGTCA ATATTTACCT			TCCCTCCCTC AATCGGTTGA ATGTCGCCCT 2700		
2701	TTTGTCTTA GCGCTGGTAA ACCATATGAA			TTTTCTATTG ATTGTGACAA AATAAACTTA 2760		
2761	TTCCGTGGTG TCTTGTGTT TCTTTATAT			GTTGCCACCT TTATGTATGT ATTTCTACG 2820		
2821	TTTGCTAACCA TACTGCGTAA TAAGGAGTCT			TAATCATGCC AGTTCTTTG GGTTACCGT 2880		
2881	TATTATTGCG TTTCTCGGT TTCTCTCTGG			TAACCTTGTT CGGCTATCTG CTTACTTTTC 2940		
2941	TTAAAAAGGG CTTCGTAAAG ATAGCTATTG			CTATTCATT GTTTCTTGCT CTTATTATTG 3000		
3001	GGCTTAACCTC AATTCTGTG GTTATCTCT			CTGATATTAG CGCTCAATTAA CCCCTCTGACT 3060		
3061	TTGTTCAAGGG TGTTCAAGTAA ATTCTCCCGT			CTAATGCCCT TCCCTGTTTT TATGTTATT 3120		
3121	TCTCTGTAAA CGCTGCTATT TTCAATTGTTG			ACGTTAAACA AAAATCGTT CTCTTATTG 3180		
3181	ATTGGGATAAA ATAATATGGC TGTTTATTG			GTAACTGGCA AATTAGGCTC TGAAAGACG 3240		
3241	CTCGTTAGCC TTGGTAAAGAT TtAGGATAAA			ATTGAGCTG GGTGCAAAT ACCAACTAAT 3300		
3301	CTTGATTAA GGCTTCAAAA CCTCCCGCAA			GTCGGGAGGT TCGCTAAAAC GCCTCGCGTT 3360		
3361	CTTGAATAC CGGATAAGCC TTCTATATCT			GATTGCGCTG CTATTGGCG CGGTAATGAT 3420		
3421	TCCTACGATG AAAATAAAA CGGCTTGCTT			GTTCTCGATG AGTGGGGTAC TTGGTTAAT 3480		
3481	ACCCGTTCTT GGAATGATAA GGAAAGACAG			CCGATTATTG ATTGGTTCT ACATGCTCGT 3540		
3541	AAATTAGGAT GGGATATTAT TTGTTGTTG			CAGGACTTAT CTATTGTTGA TAAACAGGCG 3600		
3601	CGTTCTGCAT TAGCTGAACA TGTGTTTAT			TGTCGTCGTC TGGACAGAAAT TACTTTACCT 3660		

FIGURE 8-2

3841	TCCGGTGT	TTT ATTCTTATT	AACGCC	TTT	TTATCACACG	GTCGGT	TTT CAAACC	ATTA	3900	
3901	AATTAGTC	AGAAGATGAA	GCTT	ACTAAA	ATATATTG	AAAAGTTTC	ACCG	GTTCT	3960	
3961	TGTCTGC	GA TTGGATT	TGC ATCAGC	CATT	ACATATA	GT	ATATAACCA	ACCTAAGCCG	4020	
4021	GAGGTT	AAAAA AGCTAGT	CTC TCAGAC	CTAT	GATTTG	GATA	AATTC	ACTAT TGACTCTT	4080	
4081	CAGCGT	CTTA ATCTAAGCTA	TCGCT	ATGTT	TC	TAAGG	GATT	CTAAGGAAA	ATTAATTAA	4140
4141	ACGGACG	GATT TACAGAAGCA	AGGTT	TATTCA	CTCAC	ATTA	TTGATT	TATC	TACTGTTTC	4200
4201	ATTA	AAAAAAG GTAA	TCAA	TGAAATTGTT	AAATG	TTGAT	TTT	TCTTGATGTT	4260	
4261	TGTTTC	CATCA TCTTCTT	TCAG	GTAA	AAATG	AAATG	ATTC	TCAGCGGATT	4320	
4321	TGTA	ACTTGG TATTCAA	AGC AAC	TAGCGA	TTGTT	TTGATT	TTG	ATGAAAAGG	4380	
4381	TACTGTT	ACT GTATATT	CAT CTGAC	GTTAA	ACCTGAAA	AT	CTAC	CAATT TCTT	4440	
4441	TGTTTAC	GT GCTAATAATT	TTGAT	ATGGT	TGTTCA	CCTT	CATAA	TTCAGAAGTA	4500	
4501	TAATCCA	AAAC AATCAGG	GATT	ATATTGATGA	ATTGCC	CATCA	TCTG	ATAATC	AGGAATATGA	4560
4561	TGATA	ATTCC GCTCCTT	CTG GTGG	TTTCTT	TGTTCCGAA	AATG	GATAATG	TTACTCAAC	4620	
4621	TTTTAA	AAATT AATAACG	GTTC GGG	CAAAGGA	TTTAATACGA	GTTCTCGA	AT	TTTTGTAAA	4680	
4681	GTCTA	AAACT TCTAA	ATC CAA	ATGTATT	ATCTATTGAC	GGCT	CTAATC	TATTAGTTG	4740	
4741	TAGTG	CACCT AAAGAT	TATT	TAGATAACCT	TCCTCAATT	CTT	CTACTG	TTGATTG	4800	
4801	AACTG	ACCG AG ATATTGATG	AGGG	TTTGTAT	ATTGAGGTT	CAGC	AAAGGTG	ATGCTT	4860	
4861	TTTTCA	TATT GCTCCTG	CTCAG	CGTGG	CACTGTTGCA	GGCG	GTGTT	ATACTGAC	4920	
4921	CCTCAC	CTCT GTTTAT	TCTG	CTGTTG	TTCGTCG	TT	TTTAAT	ATG GCGATGTT	4980	
4981	AGGGCT	ATCA GTTCG	CGAT	TAAGACTAA	TAGCCATT	AAA	ATATTGT	CTGTGCCAC	5040	
5041	TATTCT	TACCG CTTTCA	AGAAG	GGGTT	TATCTCTG	GGCC	AAGAT	TCCCTTTT	5100	
5101	TACTGG	CGT GTACTGG	GT	ACTGCAA	TGTAAT	CCATT	TTCAG	CGATTGAC	5160	
5161	TCAAA	ATGTA GGT	TTTCA	TGAGC	TCTGTTGCA	TCTG	CTG	ATGCTGGCG	5220	
5221	TCTGG	ATATT ACCAGCA	AGG CCG	ATAGTT	GAGTCTCT	ACTCAG	AGGAA	GTGATGTT	5280	
5281	TACTA	ATCAA AGAAGTATTG	CTAC	AAACGGT	TAATTGCG	GATG	GACAGA	CTCTTT	5340	
5341	CGGTGG	CTC ACTGATT	TATA	AAAACATTC	TCAAGATT	GGCG	TACCGT	TCCTGT	5400	
5401	AATCCC	TTA ATCGGC	CTC	TGTTAGCTC	CCGCTCTG	TCTG	CTG	ATACGACG	5460	
5461	ATACG	GCTC GTCAAAGCAA	CCATAG	TACG	CGCCCTG	TGATA	ACGAGGAA	AGCGCGGCG	5520	
5521	GTGTGG	GGT TACCGC	AGC	GTGACCG	CACTTGCC	CGCC	CTAGCG	CCCC	CTCCT	5580
5581	TCG	CTT CCCTT	CCCTC	CTGCCACGT	TCGCGG	TCCC	GGCTCAA	GCTCTAA	5640	
5641	GGGG	GCTCC TTTAGG	GGT	CGATTTAGTG	CTTACGG	CTCG	ACCCCC	AAAAAA	5700	
5701	ATTTGG	GTA TGTT	TCACGT	AGTGGGCCAT	CGCCCTG	GACG	GGTTTT	CGCCCTT	5760	
5761	CGTTGG	AGTC CACGTT	TTT	AAATAGTGAC	TCTTGT	TTCA	AACTGGAACA	ACACTCAACC	5820	
5821	CTATCT	CGGG CTATT	CTT	TATAAG	GGATTTG	GATT	CGGAA	CCACCATCAA	5880	
5881	ACAGG	ATTG CGCCTG	CTG	GGCAAAC	CGTGGACCG	GGCT	CGGAC	TTCGAAAC	5940	
5941	CCAGG	CGGTG AAGGCA	ATC	AGCTGTTG	CGTCTCG	TG	AAAAGAA	AAACCA	6000	
6001	GGC	CCCCAAT ACGCAA	ACCG	CCTCT	CGCCG	GCGT	TTGCC	GATT	6060	
6061	ACG	ACAGGTT CCCGACTGG	AAAG	GGGGCA	GTGAGCGA	CGCA	AAATAAT	GTGAGTT	6120	
6121	TCAC	TCTTA GGCA	CCCC	CG	TTATGTTCC	GGCT	CGT	GTATG	6180	
6181	TTGTG	AGGGG ATAACAA	TTT	CACACG	ACTGGGACT	GGCG	CTG	CTG	6240	
6241	GTG	ACTGGGA AAACCT	GGC	TG	CTTGTACAT	GGCA	AGAAAATA	AAAGTGA	6300	
6301	AAGCA	CTATT GCACT	GGC	AC	ACTGTTAC	CCTG	GGCAA	AGGCCTATGG	6360	
6361	GGGG	TTCA GCTTCTG	AGC	GGGAG	TGAAGGCG	GACCC	CTGCTA	AGGCTGC	6420	
6421	CAATAG	TTTA CAGGCA	AGT	GAGT	CATTGGCT	GCTT	GGCTA	TGGTAGT	6480	
6481	TATAG	TTGTT GCTAC	ATG	AAATT	ATTCAAA	AAAAG	TTTAC	GAGCA	6540	
6541	AGCA	ATAGCG AAGAGGCC	CC	GGC	CCTCCC	CC	TTCAAC	AGGCTT	6600	
6601	GAAT	GGCGCT TTGCTG	GGT	CCGGC	GAAT	GAAG	GGCTG	CGGAAAGCTG	6660	
6661	GAT	CTTCC	CGT	AGGCG	GATAC	CCCT	CAACT	GCTGGAGTGC	6720	
6721	GCG	CCCATCT ACACCA	ACG	AC	ACATATA	ATTACGG	GGCAGATGCA	CGGTTACGAT	6780	
6781	GAGA	ATCCGA CGGGT	GT	TTA	TGTT	TTAAT	GTG	GTACAGGAA	6840	
6841	GGCC	AGACGC GAATT	TTT	TGATG	GGT	CCTATT	GGT	CTGATTAAC	6900	
6901	AAA	AAATTAA CGCGA	TTT	AAACAA	TTAAT	TAAC	GGT	TTTATA	6960	
6961	CAAT	CTTCTCT GTTT	GGG	CTTT	CTGAT	TAT	ACG	GGTACATATG	7020	
7021	TAG	TTTACG ATTACCG	GTTC	ATC	GATT	TTG	TTG	ATTGACATGC	7080	
7081	TGAT	AGCC TTGTA	TG	TGAG	ATCTC	CTAC	GGC	AAATGACC	7140	
7141	GAAC	GGGTGA ATATC	ATT	GATGG	GATT	TGACT	GGC	CTTCTCT	7200	
7201	AAT	CTTAC ACC TACAC	ATT	AC	ACATTAC	CAT	GGTAC	GGTACATATG	7260	
7261	TTT	ATCCTG CGTTG	AAATA	AAGG	CTAC	TTTAA	GGC	AAAGT	ATTACAGG	7320
7321	TTGG	TACAAC CGATTAGCT	TTA	TGCT	GTATG	TTAATT	GGC	AAATG	CTAATG	7380
7381	TG	CCCTGCCT GTATG	TTA	TG	GACGTT	TTG	TTT	TTT	7409	

| 10 | 20 | 30 | 40 | 50 | 60 |

FIGURE 9-1

M13IX421

	1	10	1	20	1	30		1	40	1	50	1	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCA	CTCGCGCCCC	AAATGAAAAT	60						
61	ATAGCTAAC	AGGTTATTGA	CCATTGCGA	AATGTATC	ATGGTCAAAC	AAATCTACT	120						
121	CGTTCCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAA	CTTCCAGACA	CCGTA	180						
181	GTTGCATATT	AAAACATGT	TGAGCTACAG	CACCA	AGCAATTAAG	CTCTAAGCCA	240						
241	TCTGCAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300						
301	TTGGAGTTG	CTTCCGGTCT	GGTCGCTTT	GAAGCTCGA	TTAAAACGCG	ATATTGAAAG	360						
361	TCTTCCGGC	TCCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420						
421	CAGGTTAAAG	ACCTGATTT	TGATTTATGG	TCATTCTCGT	TTCTGAACT	GTTAAAGCA	480						
481	TTTGAGGGG	ATCAATGAA	TATTTATGAC	GATTCCGAG	TATGGACGC	TATCCAGTCT	540						
541	AAACATTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTG	CAAAGCCCTC	TCGCTATTT	600						
601	GGTTTATTC	GTGCTCTGGT	AAACGAGGGT	TATGATAGT	TTGCTCTTAC	TATGCCTCGT	660						
661	AATTCCTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGT	GTATCCCAA	ATCTCAACTG	720						
721	ATGAATCTT	CTACCTGTA	TAATGTTGT	CCGTTAGTC	TTTATTAA	CGTAGATTT	780						
781	TCTTCCAAAC	GTCTGACTG	GTATAATGAG	CCAGTCTTA	AAATCGCATA	AGGTAATTCA	840						
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCAAATT	TACTACTCGT	TCTGGTGT	900						
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCACCTTG	TTACGTTGAT	TTGGGTAATG	960						
961	AAATCCGGT	TCTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCTGGTC	1020						
1021	TGTACACCGT	TCATCTGTCC	TCCTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080						
1081	GTCTGCGCCT	CGTTCGGCT	AAAGTAACATG	GACCAGGTG	CGGATTTCGA	CACAATTAT	1140						
1141	CAGGCGATGA	TACAAATCTC	CGTTGACTT	TGTTTCGCG	TTGGTATAAT	CGCTGGGGT	1200						
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCG	CCTCTTCG	TTAGGTTGG	TGCCCTCGTA	1260						
1261	GTGGCATTAC	GTATTTACC	CGTTTAATGG	AAACTCCCTC	ATGAAAAAGT	CTTAGTCCT	1320						
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTCGCTG	CTGAGGGTGA	1380						
1381	CGATCCCGCA	AAAGCGCCCT	TTAACCTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440						
1441	TCCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500						
1501	ATTCACCTCG	AAACCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCTTTT	GGAGCCTTTT	1560						
1561	TTTTGGAGA	TTTCAACGT	AAAAAAATTA	TTATTGCAA	TTCTTTAGT	TGTTCTTTTC	1620						
1621	TATTCTCACT	CCCGTGAACAC	TGTTGAAAGT	TGTTAGCAA	AACCCCATAC	AGAAAATTCA	1680						
1681	TTTACTAACG	TCTGAAAGA	CGACAAAAC	TTAGATCGT	ACGCTAACTA	TGAGGGTTGT	1740						
1741	CTGTGGGATG	CTACAGCGT	GTAGTTGT	ACTGGTGAC	AAACTCAGT	TTACGGTACA	1800						
1801	TGGGTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGTG	GTGGCTCTGA	GGGTGGCGGT	1860						
1861	TCTGAGGGTG	GGGGTCTG	GGGGTGGCGGT	ACTAACCTC	CTGAGTACGG	TGATACACCT	1920						
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTCTC	GACGGCACTT	ATCCGCTGG	TACTGAGCAA	1980						
1981	ACCCCGCTA	ATCTTATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040						
2041	CAGAATAATA	GGTTCGAAA	TAGGCAGGGG	GCATTAAC	TTTATACGGG	CACTGTTACT	2100						
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CACTACACTC	CTGTATCATC	AAAAGCCATG	2160						
2161	TATGACGCTT	ACTGGAACGG	TAATTCAAGA	GACTGCGCTT	TCCATTCTGG	CTTAAATGAA	2220						
2221	GATCCATTG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCCTCAACC	TCCTGTCAAT	2280						
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTCTGGT	GGCGGCTCTC	AGGGTGGTGG	CTCTGAGGGT	2340						
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGG	GGCGGTTCTG	GTGGTGGCTC	TGGTCCGGT	2400						
2401	GATTTGATT	ATGAAAAGAT	GGCAAAACGCT	AATAAGGGG	CTATGACCGA	AAATGCCGAT	2460						
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520						
2521	GCTGCTATCG	ATGGTTCAT	TGGTGACGTT	TCCGGCTT	CTAATGGTAA	TGGTGTACT	2580						
2581	GGTGATTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCAACCT	2640						
2641	TTAATGAAATA	ATTTCCGTCA	ATATTTCACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700						
2701	TTTGTCTTA	GGCGTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AATAAAACTTA	2760						
2761	TTCCGTTGTC	TCTTGTGTT	TCTTTTATAT	TTGTCACCT	TTATGTATGT	ATTTCTACG	2820						
2821	TTTGCTAAC	TACTGCGTA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880						
2881	TATTATTGCG	TTTCCCTCGGT	TTCTCTCTGG	TAACCTTGT	CGGCTATCTG	CTTACTTTTC	2940						
2941	TTAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTCATT	GTTCTTGCT	CTTATTATTG	3000						
3001	GGCTTAAC	AATTCTGTG	GGTTATCTC	CTGATATTAG	CGCTCAATT	CCCTCTGACT	3060						
3061	TTGTTCA	GGTCAGG	TGTCAGTTA	CTAATGGC	TCCCTGTTT	TATGTTATT	3120						
3121	TCTCTGAA	GGCTGCTATT	TTCAATT	ACGTTAAACA	AAAATCGTT	TCTTATT	3180						
3181	ATTGGGATAA	ATAATATGGC	TGTTTATT	GTAAC	TTAGGCTC	TGAAAGACG	3240						
3241	CTCGTTACG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCT	GGTGC	AAAAT ACCAACTAAT	3300						
3301	CTTGATTAA	GGCTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAC	CCCTCGCGTT	3360						
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTGCTT	CTATTGGCG	CGGAATGAT	3420						
3421	TCCTACGATG	AAAATAAAAA	CCGGCTTGCTT	GTTCTCGAT	AGTGGCGTAC	TTGGTTAAT	3480						
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGTTTCT	ACATGCTCGT	3540						
3541	AAATTAGGAT	GGGATATTAT	CTTCCTTGTT	CAGGACTT	CTATTGTTGA	AAACAGGCG	3600						
3601	CGTTCTCCAT	TAGCTGAACA	TGTTGTTT	TGTCGCTC	TGGACAGAAT	TACTTTACCT	3660						

FIGURE 9-2

3841 TCCGGTGT TT ATTCTTATTT AACGCCTAT
3901 AATTAGGTC AGAAGATGAA GCTTACTAAA
3961 TGTCTTGC GA TTGGATTTC ATCAGCATT
4021 GAGGTTAAAA AGGTAGTCTC TCAGACCTAT
4081 CAGCGCTTA ATCTAAGCTA TCGCTATGTT
4141 AGCGACGATT TACAGAAGCA AGGTTATTCA
4201 ATTAAAAAGG TAATTCAAAT GAAATTGTTA
4261 GTTTCATCAT CTTCTTTGC TCAGGTAATT
4321 GTAACCTGGT ATTCAAAGCA ATCAGCGAA
4381 ACTGTTACTG TATATTTCATC TGACGTTAAA
4441 GTTTTACGTG CTAATAATT TGATATGGTT
4501 AATCCAAAACA ATCAGGATT AATTGATGAA
4561 GATAATTCCG CTCCCTCTGG TGGTTCTTT
4621 TTTAAAATTA ATAACGTTCG GCCAAAGGAT
4681 TCTAACTCT CAAATCCTC AAATGTATTAA
4741 AGTGCACCTA AAGATATTAA AGATAACCTT
4801 ACTGACAGA TATTGATTGA GGCTTGATA
4861 TTTTCATTC CGCTGGCTC TCAGCGTGGC
4921 CTCACCTCTG TTTTATCTC TGCTGGTGT
4981 GGGCTATCAG TTGCGCATT AAAGACTAAT
5041 ATTCTTACGC TTTCAGGTCA GAAAGGTTCT
5101 ACTGGTCGT TGACTGGTGA ATCTGCCAAT
5161 CAAAATGTAG GTATTCCAT GAGCCTTTT
5221 CTGGATATTA CCAGCAAGGC CGATAGTTG
5281 ACTAATCAAA GAAGTATTGC TACAACGGTT
5341 GGTGGCCTCA CTGATTATAA AAACACTTCT
5401 ATCCCTTAA TCGGCTCCT GTTAGCTCC
5461 TACGTGCTCG TCAAAGAAC CATAGTACGC
5521 TGTGGTGGTT ACGCGCAAGCG TGACCGCTAC
5581 CGCTTCTTC CCTTCCTTC TCGCCACGTT
5641 GGGGCTCCCT TTAGGGTCC GATTTAGTGC
5701 TTTGGGTGAT GGTCACTGA GTGGGGCCATC
5761 GTTGGAGTCC ACGTTCTTA ATAGTGGACT
5821 TATCTCGGGC TATTCTTTG ATTATAAGG
5881 CAGGATTTC GCCTCTGGG GCAAACCGC
5941 CAGGGCTGTA AGGGCAATCA GCTGTTGGCC
6001 GCGCCCCATA CGCAACCCG CTCCTCCCCG
6061 CGACAGGTTT CCCGACTGGA AAGCGGGCAG
6121 CACTCATTAG GCACCCCAGG CTTTACACTT
6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA
6241 GTAGGAGAGC TCGGCGGATC CGAGGCTGAA
6301 AGTTTACAGG CAAGTGTAC TGAGTACATT
6361 GTTGGTGTCA CCATAGGGAT TAAATTATTC
6421 GCTGGCGTAA TAGCGAAGAG GCCCGCACCG
6481 ATGGCGAATG GCGCTTGC TGTTTCCGG
6541 AGTGCATCT TCCTGAGGCC GATACTGGCG
6601 ACGATGCCGC CATCTACACC AACGTAACCT
6661 CCACGGAGAA TCCGACGGGT TTGTTACTCGC
6721 AGGAAGGCCA GACGCGAATT ATTTTGATG
6781 TTAACAAAAA TTAAACGGA ATTTAACAA
6841 TTATACAATC TTCTGTTT TGCGGGCTTT
6901 CATGCTAGTT TTACGATTAC CGTTCATCGA
6961 TGACCTGATA GCCTTGTAG ATCTCTCAA
7021 AGCTAGAACG GTGAATATC ATATTGATGG
7081 TTTGAACTT TTACCTACAC ATTACTCAGG
7141 AAATTTTAT CTTGGCTTG AAAAAGGC
7201 TGTTTGGT ACAACCGATT TAGCTTATG
7261 TTCTTGCCT TGCGTGTATG ATTATTGGAA
TTATCACACG GTCGGTATTT CAAACCATTAA 3900
ATATATTGTA AAAAGTTTC ACGCGTTCTT 3960
ACATATAGTT ATATAACCCA ACCTAAGCCG 4020
GATTTGATA AATTCACTAT TGACTCTTCT 4080
TTCAAGGATT CTAAGGGAAA ATTAATTAAT 4140
CTCACATATA TTGATTTATG TACTGTTCC 4200
AATGTAATT ATTGTTTTT CTTGATGTTT 4260
GAAATGAATA ATTGCCTCT CGCGGATTTT 4320
TCCGTTATTG TTCTCCCGA TGAAAAGGT 4380
CCTGAAAATC TACGCAATT TTGTTATTCT 4440
GGTCATTG CTTCCATTAT TTAGAAGTAT 4500
TTGCCATCAT CTGATAATCA GGAATATGAT 4560
GTTCCGAAA ATGATAATGT TACTCAAATC 4620
TTAATACGAG TTGTCGAATT GTTTGTAAG 4680
TCTATTGACG GCTCTAATCT ATTAGTGTGTT 4740
CCTCAATTCC TTTCTACTGT TGATTTGCCA 4800
TTTGGAGGTC AGCAAGGTGA TGCTTTAGAT 4860
ACTGTTGAG CCGGTGTTAA TACTGACCCG 4920
TCGTTGGTAA TTTTAATGG CGATGTTTTA 4980
AGCCATTCAA AAATATGTC TGTGCCACGT 5040
ATCTCTGTTG GCCAGAATGT CCCTTTATT 5100
GTAATAATC CATTTCAGAC GATTGAGCGT 5160
CCTGTCGAA TGGCTGGCGG TAATATTGTT 5220
AGTTCTCTA CTCAGGCAAG TGATGTTATT 5280
AATTGCGTG ATGGACAGAC TCTTTTACTC 5340
CAAGATTCTG GCGTACCGTT CCTGTCAAA 5400
CGCTCTGATT CCAACGAGGA AAGCACGTTA 5460
GCCCTGTAGC GGCGCATTAA GCGCGGCGGG 5520
ACTGCCAGC GCCCTAGCGC CGCGTCCCTT 5580
CGCGGCTTT CCCCCTCAAG CTCTAAATCG 5640
TTTACGGCAC CTCGACCCCA AAAAACTTGA 5700
GCCCTGATAG ACGGTTTTTC GCCCTTGAC 5760
CTTGTTCAA ACTGGAACAA CACTCAACCC 5820
GATTTGGCG ATTTCGGAAC CACCATCAAA 5880
GTGGACCGCT TGCTGCAACT CTCTCAGGGC 5940
GTCTCGCTGG TGAAAAGAAA AACCACCCCTG 6000
GCGTTGGCCG ATTCTTAAT GCAGCTGGCA 6060
TGAGGCCAAC GCAATTATG TGAGTTAGCT 6120
TATGCTTCCG GCTCGTATGT TGTTGGAAT 6180
CAGCTATGAC CAGGATGTAC GAATTGCGAG 6240
GGCGATGACC CTGCTAAGGC TGCATTCAAT 6300
GGCTACGCTT GGGCTATGGT AGTAGTTATA 6360
AAAAAGTTA CGAGCAAGGC TTCTTAACCA 6420
ATCGCCCTTC CCAACAGTTG CGCAGCCTGA 6480
CACCAAGAAC GGTCCCGGAA AGCTGGCTGG 6540
TCGTCCCCCTC AAACCTGGCAG ATGCACGGTT 6600
ATCCCATTAC GGTCAATCCG CGCTTGTTC 6660
TCACATTAA TGTTGATGAA AGCTGGCTAC 6720
GGCTTCCAT TGTTAAAAAA ATGAGCTGAT 6780
AATATTAACG TTTACAATT AAATATTGTC 6840
CTGATTATCA ACCGGGGTAC ATATGATTGA 6900
TTCTCTGTT TGCTCCAGAC TCTCAGGCAA 6960
AATAGCTACC CTCTCCGGCA TTAATTCTAC 7020
TGATTTGACT GTCTCCGGCC TTTCTCACCC 7080
CATTGCAATT AAAATATATG AGGGTTCTAA 7140
TTCTCCCGCA AAAGTATTAC AGGGTCATAA 7200
CTCTGAGGCT TTATTGCTTA ATTTGCTAA 7260
CGTT 7294

| 10 | 20 | 30 | 40 | 50 | 60

FIGURE 10-1

ed04

	1	10	1	20	1	30		1	40	1	50	1	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC		ACCTTTCA	G CTCCGCC	AAATGAAA	AT	60				
61	ATAGCTAAC	AGGTATTGA	CCATTTGC	GA	AATGTATC	T A	AA	TCTA	120				
121	CGTTCGAGA	ATTGGGAATC	AACTGTTACA		TGGAATGAAA	C TTCCAGACA	CCG	TACTTTA	180				
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG		CACCAGATT	C AGCAATTAA	G	CTCTAAGCCA	240				
241	TCTGAAAAAA	TGACCTCTTA	TCAAAGGAG		CAATTAAAGG	T ACTCTCTAA	T C	CTTGAC	300				
301	TTGGAGTTG	CTTCCGGTCT	GGTCGCTTT		GAAGCTGAA	T TAAAACGCG	A	TATTTGAAG	360				
361	TCTTCGGGC	TTCCCTCTAA	TCTTTTGAT		GCAATCCGCT	T TGCTTCTGA	C	TATAATAGT	420				
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG		TCATTCTCGT	T TCTGA	A	CT GTAAAGCA	480				
481	TTTGAGGGG	ATTCAATGAA	TATTTATGAC		GATTCCGCA	G TATTGAC	G	TATCCAGTCT	540				
541	AAACATTTA	CTATCACCCC	CTCTGGCAAA		ACTTCTTTG	C AAAAGC	C	T CGCTATT	600				
601	GGTTTTATC	GTGCTCTGGT	AAACGAGGGT		TATGATAGT	G TTGCTCTTAC	T ATG	CCTCGT	660				
661	AATTCC	GGCGTATGT	ATCTGCATTA		GTTGAATGT	G TATTC	C TAA	ATCTCAACTG	720				
721	ATGAATCTT	CTACCTGTAA	TAATGTTGTT		CCGTTAGT	I CTTTATTAA	C	GTAGATTTT	780				
781	TCTTCCAAAC	GTCCGTACTG	GTATAATGAG		CCAGTTCTTA	A AATCGCATA	A	GGTAATTCA	840				
841	CAATGATTA	AGTTGAAATT	AAACCATCTC		AAGCCC	A ATT	T	ACTACTCGT	T CTGGTGT	900			
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAAT		AGCAGCTT	G TTAC	G	TGATTTGAT	TTGGGTAATG	960			
961	AAATCCGGT	TCTTGTCAAG	ATTACTCTTG		ATGAAGTC	G CCCAGCCT	T AT	GGCCTGGTC	1020				
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAG		TTGGTCAGT	G CGGTC	C	TTGAC	1080				
1081	GTCTGCGCCT	CGTCCGGCT	AACTAACATG		GAGCAGGT	G CGGAT	T C	A CAAATT	1140				
1141	CAGGCCATG	TACAAATCTC	CGTTGACTT		TGTTCCG	C TTG	T AAT	CGCTGGG	1200				
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCG		CCTCTT	C G	T T	AGGTTGG	TGCCTCGT	1260			
1261	GTGGCATTAC	GTATTTACC	CGTTAATGG		AAACTC	C CT	A T	GAAAAGT	CTTAGTC	1320			
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCG		TCCGAT	G CT	T C	GGCT	1380				
1381	CGATCCCGA	AAAGCGGC	TTAACCTCC		GCAAGCCT	C G	C	ACCGA	1440				
1441	TGCGTGGCG	ATGGTTGTTG	TCATTGTCGG		CGCAACT	T C	G	TATCAAGC	TGTTAAGAA	1500			
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA		TACAATT	A AAA	G G	GGCCT	1560				
1561	TTTTGGAGA	TTTCAACG	AAAAAAATT		TTATTCC	A AA	T C	TTAG	1620				
1621	TATTCTCA	CCGCTGAAAC	TGTTGAAAGT		TGTTAG	C AA	A C	CCC	1680				
1681	TTTACTAACG	TCTGAAAGA	CGACAAA		TTAGATC	G G	T C	TA	1740				
1741	CTGTTGAA	CTACAGCG	TGAGTTGTT		ACTG	G G	A A	ACTCAGT	T AC	1800			
1801	TGGGTCCTA	TTGGGCTTG	TATCCCTGAA		AATGAGG	T G	G G	GGCT	1860				
1861	TCTGAGGGT	GGCGGTTCTGA	GGGTGGCGGT		ACTAAAC	T C	G	TGAGTAC	ACCT	1920			
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTC		GACGGC	C AT	T C	CC	T GAGCAA	1980			
1981	AAACCCGCTA	ATCCTAATCC	TTCTCTTGAG		GAGTC	T C	C T	CTTA	ATAC	2040			
2041	CAGAATAATA	GTTCGAAA	TAGGCAGGGG		GCATTA	A ACT	T T	TAC	GGG	2100			
2101	CAAGGC	ACTG	ACCCCGTAA	AACTATTAC	CA	G TAC	A C	T	CA	2160			
2161	TATGACG	CTT	ACTGGAACGG	TAATTC	GA	T C	C	CC	TTG	2220			
2221	GATCCATCG	TTTGT	GAATA	TCAAGGCC	TC	GCT	T G	CC	TAACC	2280			
2281	GCTGGCGCG	GCTCTGGT	TGTTCTGGT		GGCG	C T	G	AGG	GGT	2340			
2341	GGCGGTTCTG	AGGGTGGCG	CTCTGAGGG		GGCG	T C	G	TG	GGCT	2400			
2401	GATTTGATT	ATGAAAAGAT	GGCAAACGCT		ATAA	GGGG	C T	ATGACCGA	AAATGCCGAT	2460			
2461	AAAACGCGC	TACAGTCTGA	CGCTAAAGGC		AAACT	G T	A T	GTG	CGCTAC	2520			
2521	GCTGCTATCG	ATGGTTTCAT	TGGTACGTT		TCCG	C CT	G	TA	ATG	2580			
2581	GGTGA	TTTG	CTGGCTCTAA	TTCCCAAATG	GCT	CA	AG	TG	ACG	2640			
2641	TTAATGAATA	ATTTCCG	TAATTTAC		TCC	C C	T C	AT	CGCC	2700			
2701	TTTGCTT	TA	GGCTGGTAA	ACCATATGAA	TTT	C T	T	TT	GT	2760			
2761	TTCCGTG	TCTT	CGT	TCTTTATAT	GTG	CC	AC	T	TG	2820			
2821	TTGCTAAC	TACT	GGT	AA	TA	A G	T	TG	TG	2880			
2881	TATTATGCG	TTT	CCG	GGT	TT	A A	T T	GG	CT	2940			
2941	TTAAAAGGG	CTC	GGT	AA	TA	A T	T C	T	TG	3000			
3001	GGCTTAAC	AAT	CTT	GTG	TT	GT	A T	T G	T	3060			
3061	TTGTCAGGG	TGTT	CTG	TA	TT	C C	T C	T G	ACT	3120			
3121	TCTCTG	AAA	GG	CTG	T	A A	T G	T G	T	3180			
3181	ATTGGGATAA	ATA	AT	ATG	TT	A A	T T	GG	AA	3240			
3241	CTCGTTAGCG	TTG	GTG	AA	AG	A T	T G	GG	AG	3300			
3301	CTTGATTTAA	GG	CTT	CAAA	C	C	T C	T G	AA	3360			
3361	CTTAGAATAC	CGG	ATA	AGGC	T	A T	T G	GG	CA	3420			
3421	TCCTACGATG	AAA	AT	AAAA	A A	T G	C G	T	GT	3480			
3481	ACCGGTTCTT	GGA	ATG	ATAA	G A	A T	T G	GG	AA	3540			
3541	AAATTAGGAT	GGG	AT	TTAT	T T	T G	T G	AA	T G	3600			
3601	CGTCTGCAT	TAG	CTG	AA	A C	A T	T G	GG	AC	3660			

FIGURE 10-2

3841	TCCGGTGT	TTT ATTCTTATTT AACGCCTTAT	TTATCACACG GTCGGTATT CAAACCATT	A 3900
3901	AATTAGTC	AGAAGATGAA GCTTACTAAA	ATATATTGAA AAAAGTTTC ACGCGTTCT	A 3960
3961	TGTCTGCGA	TTGGATTTGC ATCAGCATT	ACATATACTT ATATAACCCA ACCTAACCG	C 4020
4021	GAGGTTAAAA	AGGTAGTCTC TCAGACCTAT	GATTTGATA AATTCACAT TGACTCTTCT	A 4080
4081	CAGCGTCTTA	ATCTAAGCTA TCGCTATGTT	TTCAAGGGATT CTAAGGGAAA ATTAATTAAAT	A 4140
4141	AGCGACGATT	TACAGAAGCA AGGTTATTCA	CTCACATATA TTGATTTATG TACTGTTCC	C 4200
4201	ATTAAGGAAAG	GTAATTCAAA TGAAATTGTT	AAATGTATT AATTGTTTT TCTTGATGTT	A 4260
4261	TGTTTCATCA	TCTCTTTG CTCAGGTAAT	TGAAATGAAT AATTGCCCTC TGGCGATT	A 4320
4321	TGTAACCTGG	TATTCAAAGC AATCAGGCGA	ATCCGTTATT GTTCTCCCG ATGAAAAGG	A 4380
4381	TACTGTTACT	GTATATTCTAT CTGACGTTAA	ACCTGAAAAT CTACGCAATT TCTTATTC	C 4440
4441	TGTTTACGT	GCTAATAATT TTGATATGGT	TGGTCAATT CCTCCATAA TTCAGAAGTA	A 4500
4501	TAATCCAAAC	AATCAGGATT ATATTGATGA	ATTGCCATCA TCTGATAATC AGGAATATGA	A 4560
4561	TGATAATTCC	GCTCCTCTG GTGGTTTCTT	TGTTCCGAA AATGATAATG TTACTCAAAC	A 4620
4621	TTTAAATT	AATAACGTTG GGGCAAAGGA	TTAATACGA GTTGTGAAT TGTTGTAA	A 4680
4681	GTCTAATCT	ICTAAATCCT CAAATGTATT	ATCTATTGAC GGCTCTAATC TATTAGTTGT	A 4740
4741	TAGTGCACCT	AAAGATATT TAGATAACCT	TCCTCAATT CTTCTACTG TTGATTTGCC	A 4800
4801	AACTGACCG	ATATTGATT AGGGATTTGAT	ATTGAGGTT CAGCAAGGTG ATGCTTTAGA	A 4860
4861	TTTTCATTT	GCTGCTGGCT CTCAGCGTGG	CACTGTTGCA GGGCGTGTAA ATACTGACCG	A 4920
4921	CCTCACCTCT	GTTTATCTT CGCTGGTGG	TTGTTCCGGT ATTTTAATG GCGATGTTT	A 4980
4981	AGGGCTATCA	GTTCCGCAT TAAAGACTAA	TAGCCATTCA AAAATATTGT CTGTGCCACG	A 5040
5041	TATTCTACG	CTTCAGGTC AGAAGGGTCA	TATCTCTGTT GGCCAGAATG TCCCCTTTAT	A 5100
5101	TACTGGTCGT	GTGACTGGTG AATCTGCCAA	TGAAATAAT CCATTCAGA CGATTGAGCG	A 5160
5161	TCAAAATGTA	CGTATTTCCA TGAGCTTT	TCCTGTTGCA ATGGCTGGCG GTAATATTGT	A 5220
5221	TCTGGATATT	ACCAGCAAGG CCGATAGTTT	GAGTTCTCT ACTCAGGCAA GTGATGTTAT	A 5280
5281	TACTAATCAA	AGAAGTATTG CTACAACGGT	TAATTGCGT GATGGACAGA CTCTTTACT	A 5340
5341	CGGTGGCCTC	ACTGATTATA AAAACACTTC	TCAAGATTCT GGCCTACCGT TCCTGTCTAA	A 5400
5401	AATCCCTTA	ATCGCCCTCC TGTTAGCTC	CCGCTCTGAT TCCAACGAGG AAAGCACGTT	A 5460
5461	ATACGTGCTC	GTCAAAGCAA CCATAGTACG	CGCCCTCTAG CGGGCCTTAA AGCCGGCGG	A 5520
5521	GTGTGGTGGT	TACGCGCAGC GTGACCGCTA	CACTTGCAG CGCCCTAGCG CCCGCTCCTT	A 5580
5581	TCGCTTCTT	CCCTTCCTT CTCGCCACGT	TCGCCGCTT TCCCCGTCAA GCTCTAAATC	A 5640
5641	GGGGGCTCCC	TTAGGGTTC CGATTAGTG	CTTTACGGCA CCTCGACCCC AAAAATCTG	A 5700
5701	ATTTGGGTGA	TGGTCACGT AGTGGGCCAT	CGCCCTGATA GACGGTTTT CGCCCTTGA	A 5760
5761	CGTTGGAGTC	CACGTTCTTT AATAGTGGAC	TCTTGTCTCA AACTGGAACA ACACTCAACC	A 5820
5821	CTATCTCGG	CTATCTTTT GATTATAAG	GGATTTGCC GATTTCGAA CCACCATCAA	A 5880
5881	ACAGGATTT	CGCCCTGCTGG GGCACCAACAG	CGTGGACCGC TTGCTGCAAC TCTCTCAGGG	A 5940
5941	CCAGCGGTG	AGGGCAATC AGCTGTTGCC	CGTCTCGCTG GTGAAAAGAA AAACCAACCT	A 6000
6001	GGCGCCCAAT	ACGCAACCG CCTCTCCCG	CGCGTTGGCC GATTCAATTA TGCAAGCTGGC	A 6060
6061	ACGACAGGT	TCCCCACTGG AAAGCGGGCA	GTGAGCCAA CGCAATTAAAT GTGAGTTAGC	A 6120
6121	TCACTCATTA	GGCACCCAG GCTTACACT	TTATGCTTCC GGCTCGTATG TTGTGTGGAA	A 6180
6181	TTGTGAGCGG	ATAACAAATT CAACACGCGTC	ACTTGGCACT GGCCGTCGTT TTACAACGTC	A 6240
6241	GTGACTGGGA	AAACCTGGC GTTACCCAAG	CTTTGTACAT GGAGAAAATA AAGTAAAACA	A 6300
6301	AAGCACTATT	GCACCTGGAC TCTTACCGTT	ACTGTTTAC CCTGTGCCAA AAGCCCTTCT	A 6360
6361	GAGGCATCCG	GGAGCTGAAG GCGATGACCC	TGCTAAGGCT GCATTCAATA GTTACAGGC	A 6420
6421	AAGTGCTACT	GAGTACATTG GCTACGCTT	GGCTATGGTA GTACTTATAG TTGGTGCTAC	A 6480
6481	CATAGGGATT	AAATTATTCA AAAAGTTTAC	GAGCAAGGCT TCTTAAGCAA TAGCGAAGAG	A 6540
6541	GCCCCGACCG	ATCGCCCTTC CCAACAGTTG	CGCAGCCTGA ATGGCGAATG GCGCTTGGCC	A 6600
6601	TGGTTCCGG	CACCAAGAGC GGTGCCGGA	AGCTGGCTGG AGTGGCATCT TCCTGAGGCC	A 6660
6661	GATACGGTCG	TCGTCCCTC AAACCTGGCAG	ATGCACGGTT ACGATGCGCC CATCTACACC	A 6720
6721	AACGTAACCT	ATCCCATTAC GGTCAATCCG	CCGTTTGTTC CCACGGAGAA TCCGACGGGT	A 6780
6781	TGTTACTCGC	TCACATTTAA TGTTGATGAA	AGCTGGCTAC AGGAAGGCCA GACCGCAATT	A 6840
6841	ATTTTGATG	GGCTTCTTAT TGTTAAAAAA	ATGAGCTGAT TAAACAAAAA TTAACGCGA	A 6900
6901	ATTTTAACAA	AAATTAAACG TTACAAATT	AAATATTGCA TTATACAATC TTCTGT	A 6960
6961	TGGGGCTTT	CTGATTTACG ACCGGGGTAC	ATATGATTGA CATGCTAGTT TTACGATTAC	A 7020
7021	CGTTCATCGA	TTCTCTGTT TGCTCCAGAC	TCTCAGGCAA TGACCTGATA GCCTTGTAG	A 7080
7081	ATCTCTCAA	AAATACCTACC CTCTCCGGCA	TTAATTATC AGCTAGAACG GTTGAATATC	A 7140
7141	ATATTGATGG	TGATTGACT GTCTCCGGCC	TTTCTCACCC TTTGAAATCT TTACCTACAC	A 7200
7201	ATTACTCAGG	CATTGCAATT AAAATATATG	AGGGTTCTAA AAATTTTAT CCTTGCCTTG	A 7260
7261	AAATAAAGGC	TTCTCCCGCA AAAGTATTAC	AGGGTCATAA TGTTTTGGT ACAACCGATT	A 7320
7321	TAGCTTTATG	CTCTGAGGCT TTATTGCTTA	ATTTTGCTAA TTCTTGCCT TGCGTGTATG	A 7380
7381	ATTTATTGGA	CGTT		A 7394

| 10 | 20 | 30 | 40 | 50 | 60